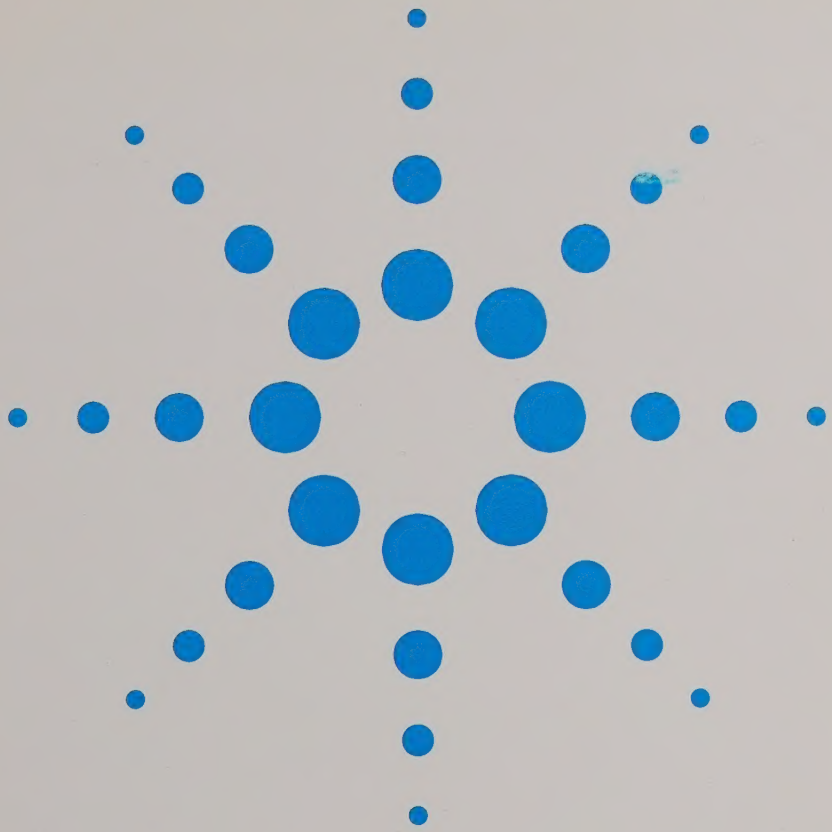
Installation Guide



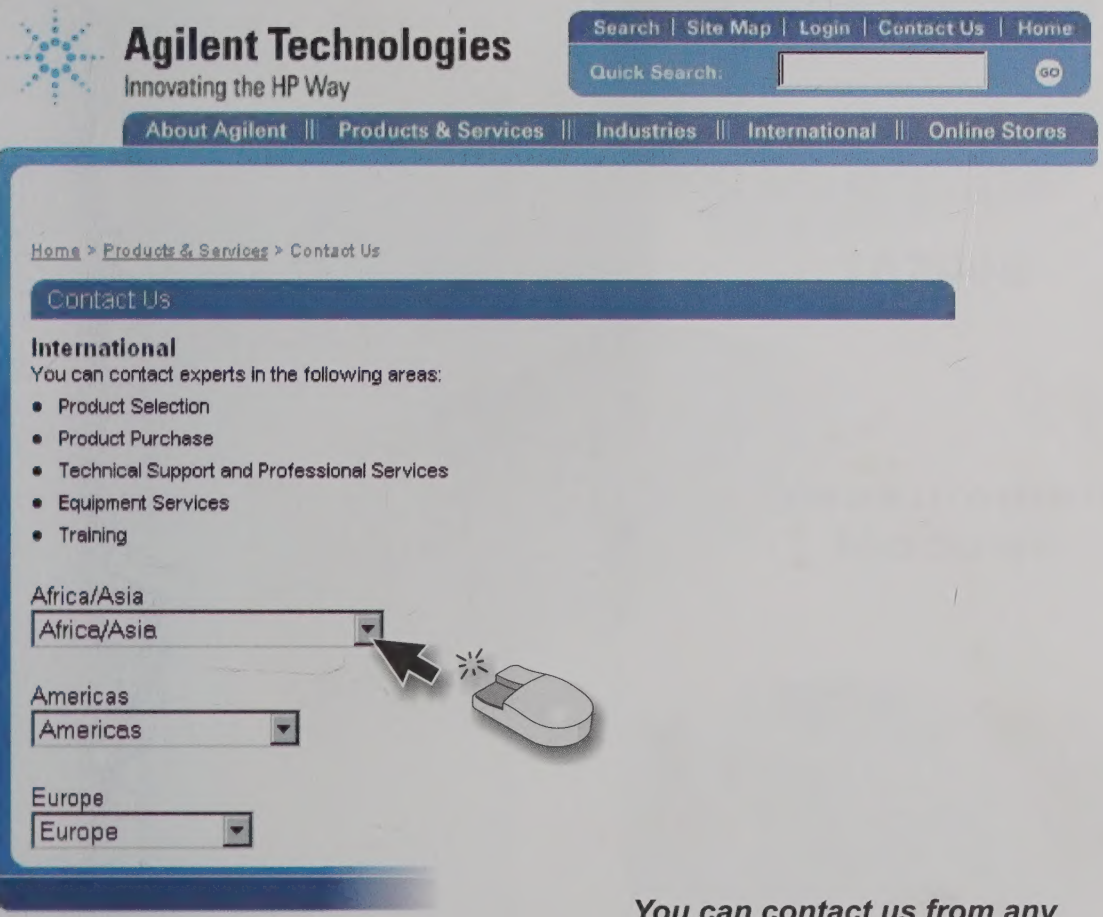
Agilent Technologies 16700B-Series Logic Analysis Systems

Agilent Technologies

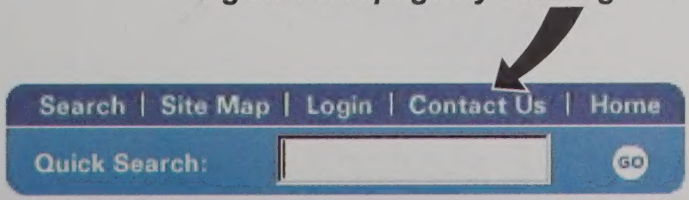
Digitized by the Internet Archive
in 2026

https://archive.org/details/manualsplus_13173

Need Help? www.agilent.com/find/need-help

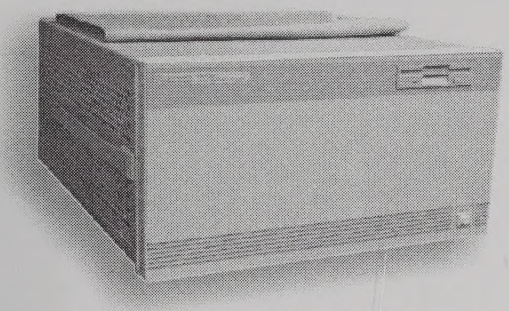


You can contact us from any Agilent webpage by clicking



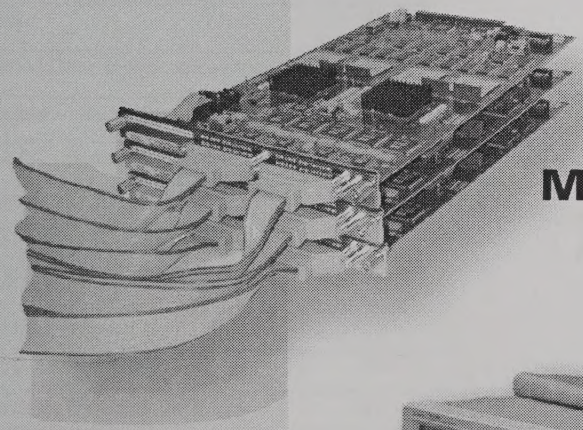
16700-92011

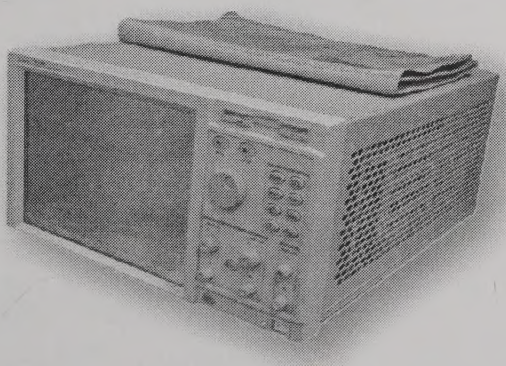
Installation Guide



16700B

Measurement Modules





16702B

Logic Analysis Systems

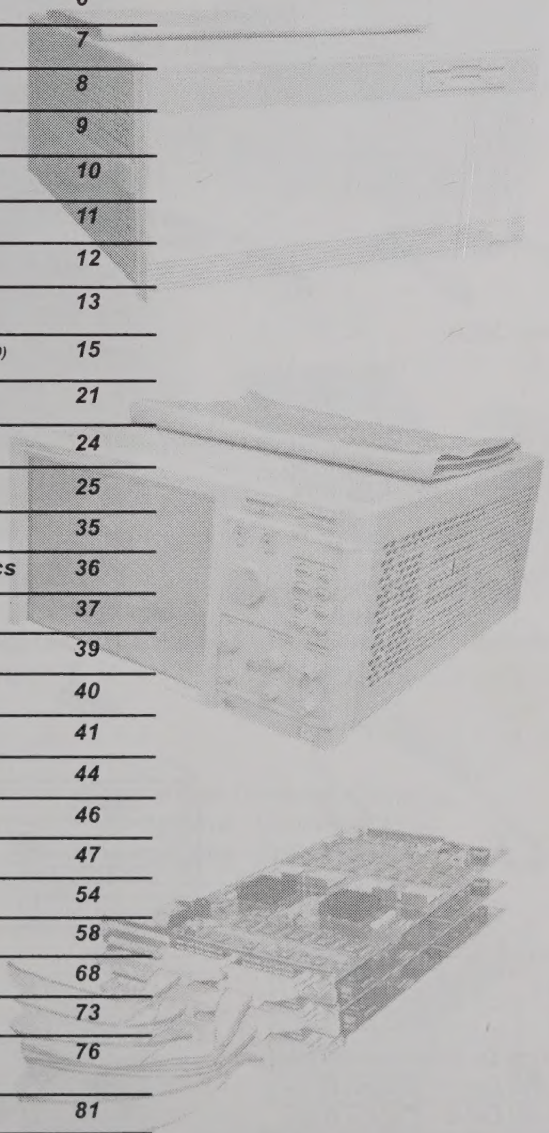
Publication Number 16700-97019

© Copyright Agilent Technologies 2000-2001
All Rights Reserved

Agilent Technologies

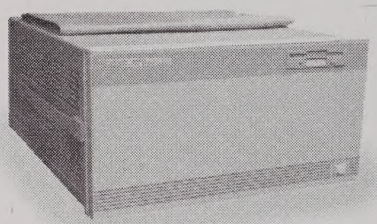
Contents

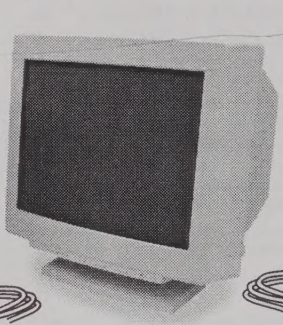
System Overview Agilent 16700B	4
System Overview Agilent 16702B	5
Mouse and Keyboard	6
Monitor Connection	7
Proper Cooling	8
Monitor Configuration 16700B	9
Monitor Configuration 16702B	10
Changing Monitors	11
LAN	12
Printers	13
External Disk Drive (option 008 & 009)	15
Software Installation	21
16701A/B Expander Frame	24
Probing ⚠	25
Self-Test	35
Specifications & Characteristics	36
Disaster Recovery	37
Saving System Settings	39
Reloading System Settings	40
Multiframe	41
Proper Cleaning	44
Module General Installations	46
16517/18A	47
16522A	54
16533/34A	58
16557D	68
16710/11/12A	73
16715/16/17A, 16718/19A 16740/41/42A, 16750/51/52A	76
16760A	81
16720A	86



16700B Overview

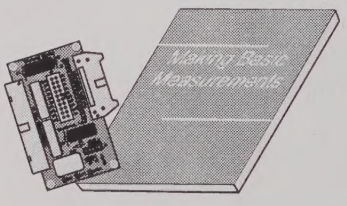
16700B Mainframe



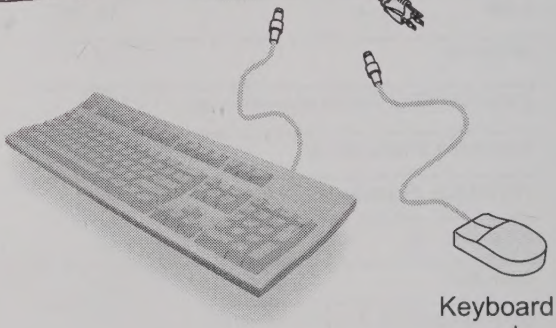


(If ordered)
Monitor
Monitor Cable
Monitor Power Cable

Power Cable

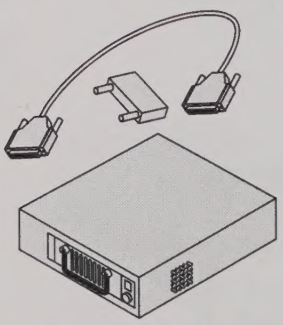


Training Board and Training Kit

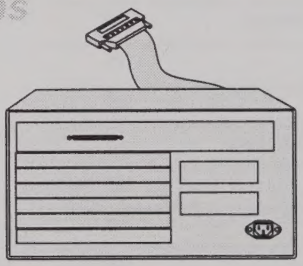


Keyboard
and
Mouse

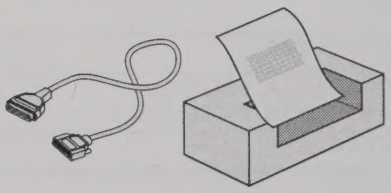
Additional Connections



External Disk Drive and Cable
(Data Drive - Option 008)
(Boot Drive - Option 009)



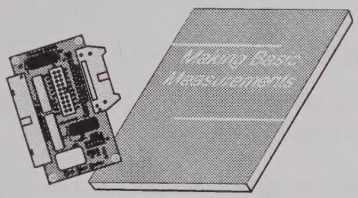
16701A/B
Expander Frame



Printer
and
Cable

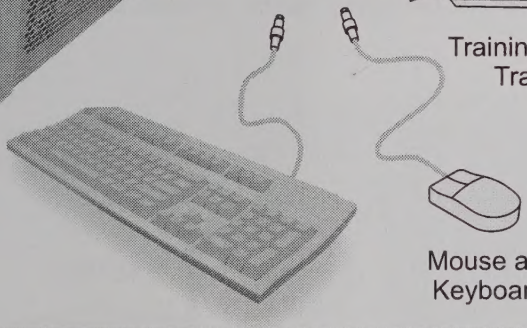
16702B Overview

16702B
Mainframe



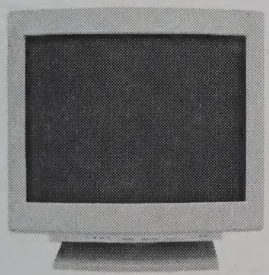
Training Board and
Training Kit

Power Cable

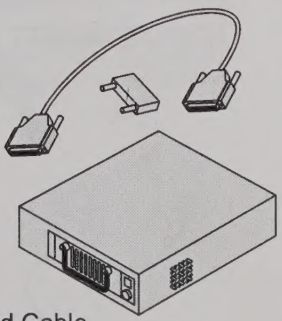


Mouse and
Keyboard

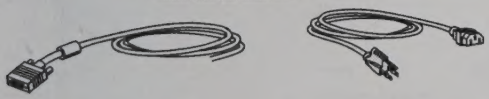
Additional Connections



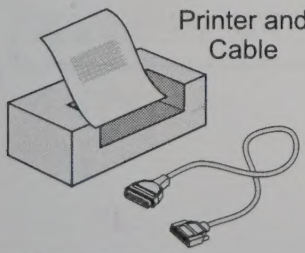
Monitor
Monitor Cable and
Monitor Power Cable
(If ordered)

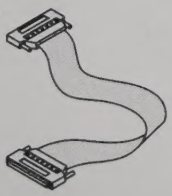


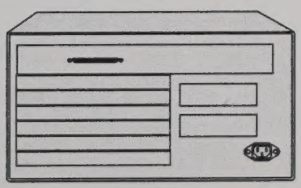
External Disk Drive and Cable
(Data Drive - Option 008)
(Boot Drive - Option 009)



Printer and
Cable





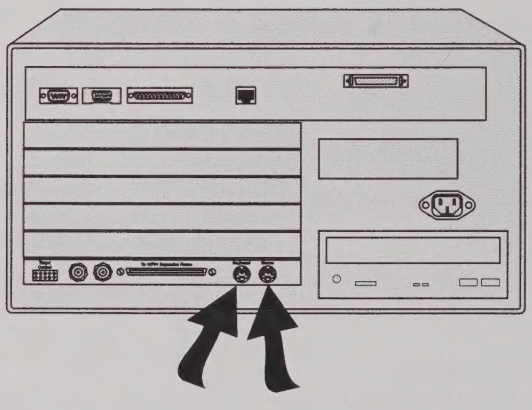


16701A/B Expander Frame

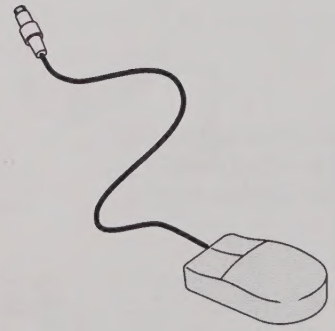
Note!

The 16700B must have the system mouse and keyboard connected for the system to boot up properly.

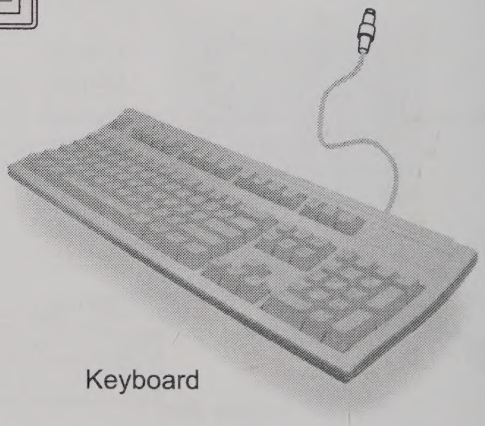
Once enabled on the LAN, the system can be operated remotely without a keyboard or mouse.



16700B
or
16702B



Mouse

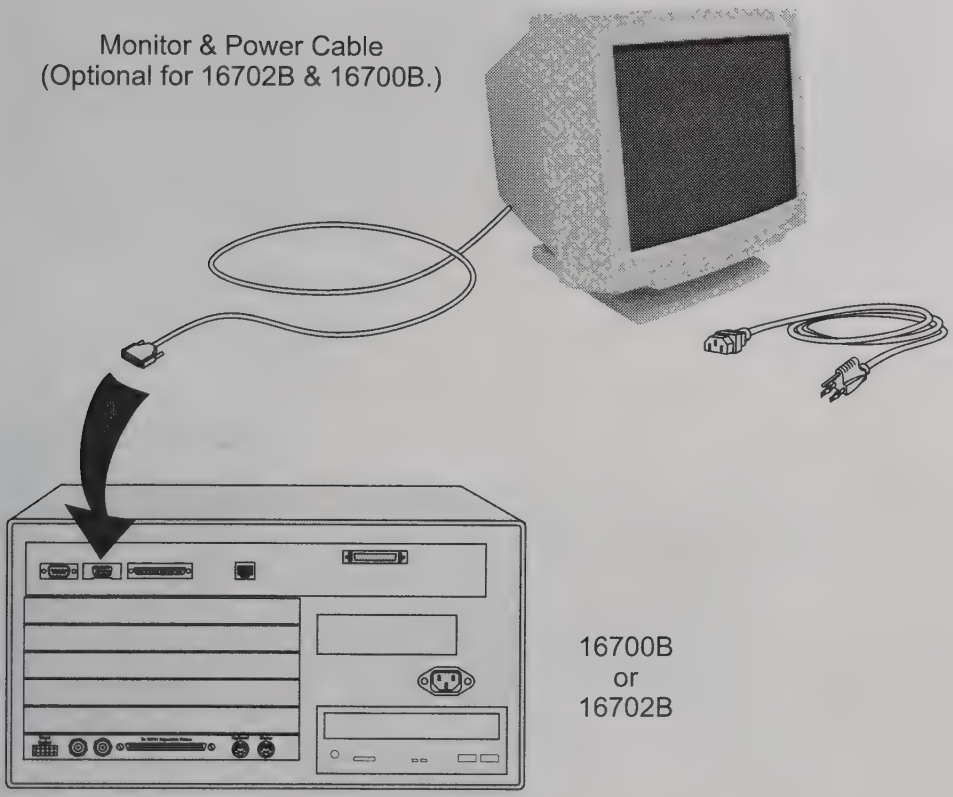


Keyboard

Note!

If applicable, international versions of the power cables can be found in the accessories box.

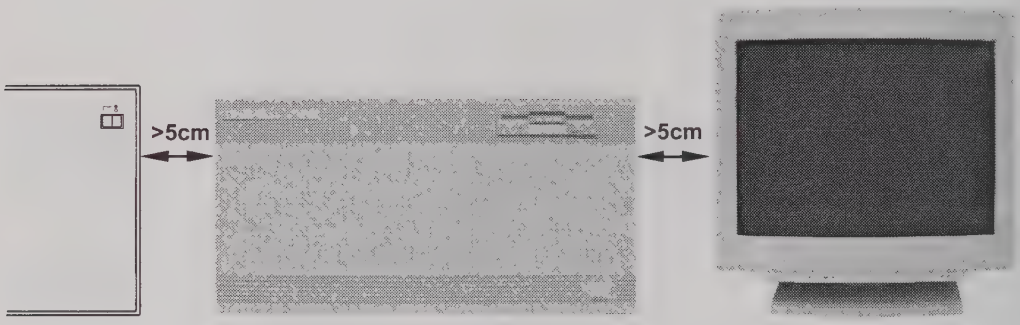
Monitor & Power Cable
(Optional for 16702B & 16700B.)



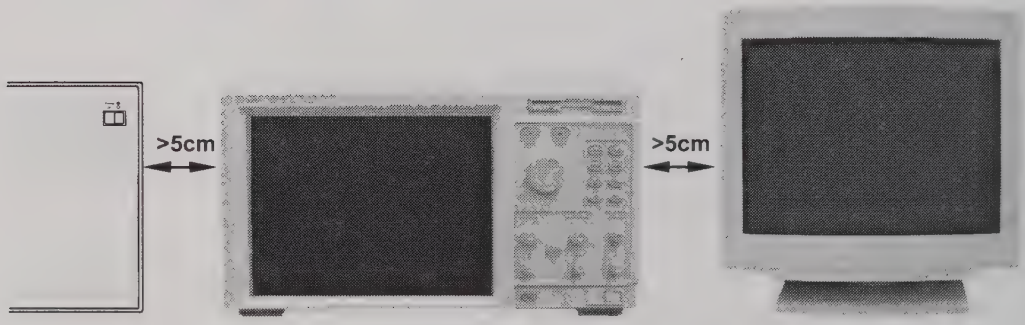
16700B
or
16702B

Proper Cooling

Allow a minimum of 5 cm spacing between instruments for proper cooling.



16700B



16702B

Monitor Configuration

for 16700B

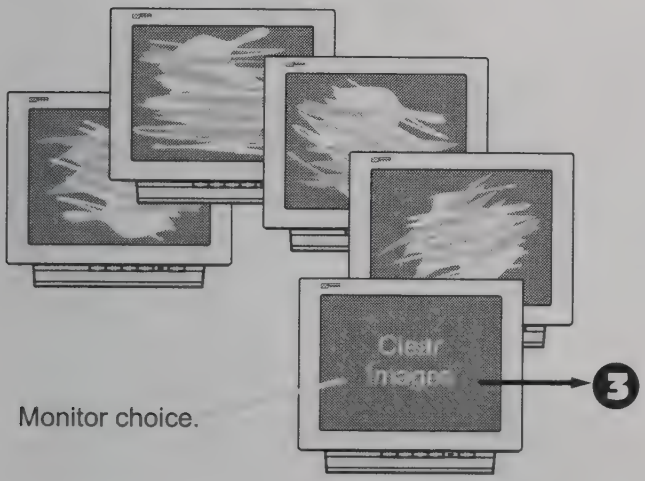
If you ordered the optional monitor with your logic analyzer, the monitor resolution setting is pre-configured for 1280 x 1024 at the factory.

If you already have a monitor and ordered your logic analysis system without the optional monitor, you will need to configure your monitor. The display will change on the screen every few seconds as the system cycles through the monitor resolution choices. Make the appropriate selection when it appears.

1 Monitor power

2 System power

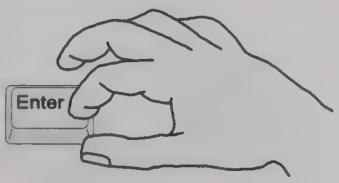
(Cycling choices)



3

Monitor choice.

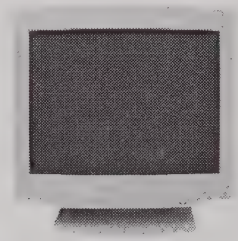
Press ENTER to select the monitor choice and "Y" to confirm.

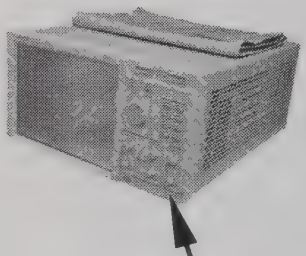


Monitor Configurations

for 16702B

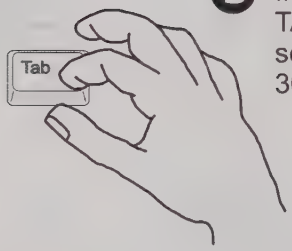
Note! Use this procedure if you wish to configure an external monitor other than the optional monitor orderable with the 16702B.

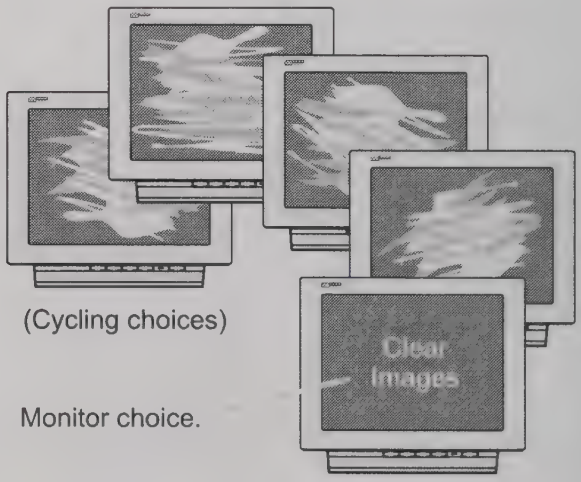




1. Monitor power
2. System power

3. Immediately press the TAB key. Press once per second for approximately 30 seconds.

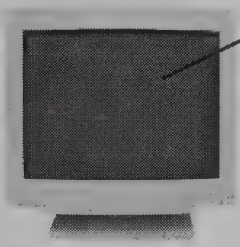




(Cycling choices)

Monitor choice.

4. Press ENTER to select the monitor choice and "Y" to confirm.

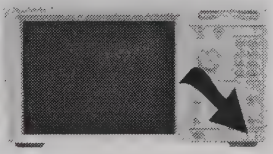


(Different Monitor)

1. Monitor power

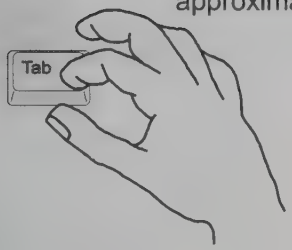
16700B

2. System power

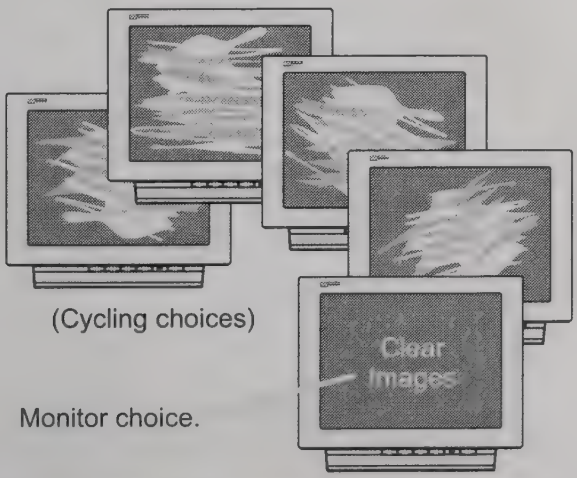


16702B

3. Immediately press the TAB key. Press once per second for approximately 30 seconds.

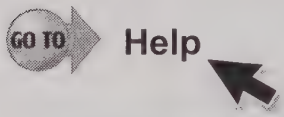


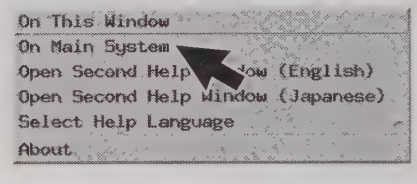
4. Press ENTER to select the monitor choice and "Y" to confirm.

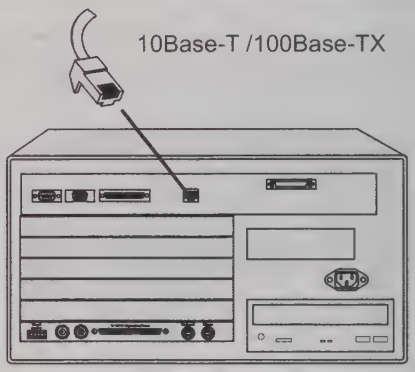


(Cycling choices)

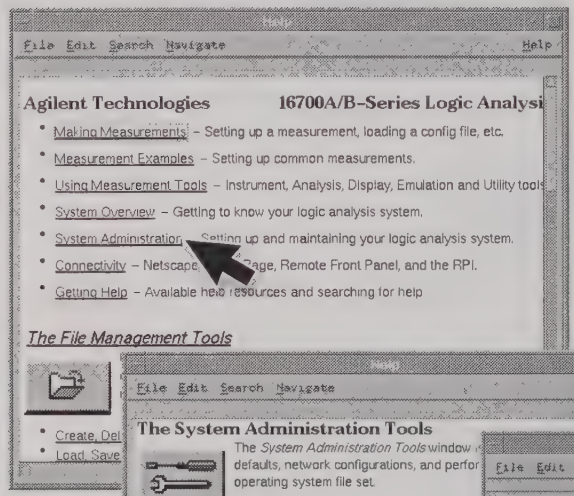
Monitor choice.

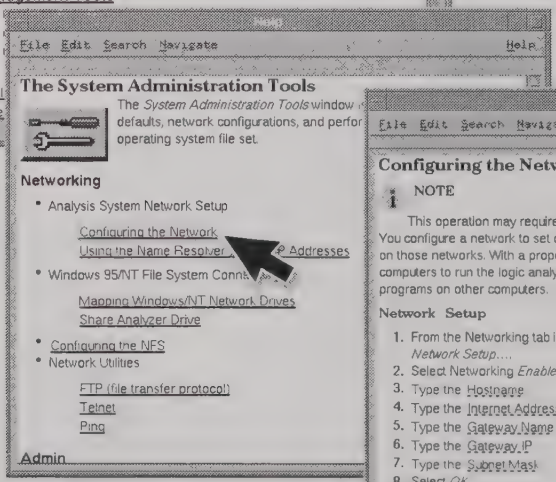


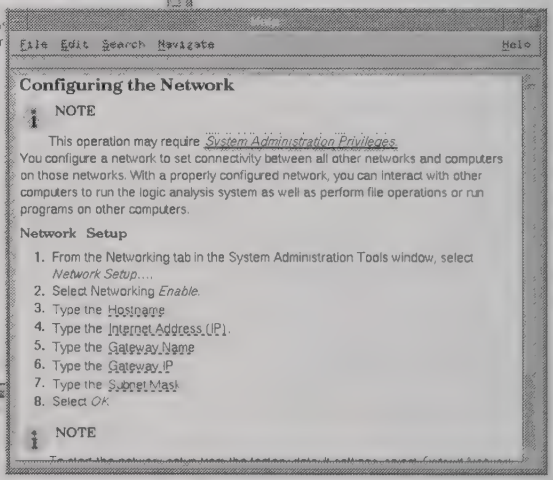


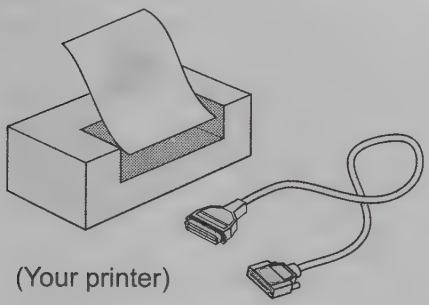


16700B or 16702B

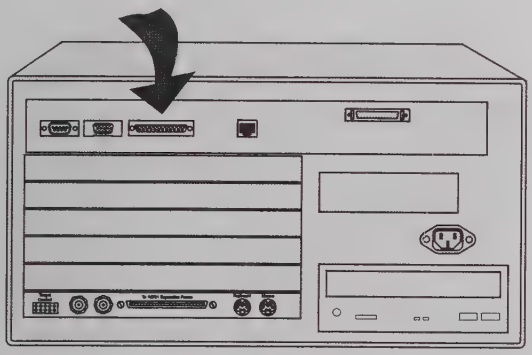

File Edit Search Navigate Help
Agilent Technologies 16700A/B-Series Logic Analysi
Making Measurements – Setting up a measurement, loading a config file, etc.
Measurement Examples – Setting up common measurements.
Using Measurement Tools – Instrument, Analysis, Display, Emulation and Utility tools
System Overview – Getting to know your logic analysis system.
System Administration – Setting up and maintaining your logic analysis system.
Connectivity – Netscape, Page, Remote Front Panel, and the RPI.
Getting Help – Available help resources and searching for help
The File Management Tools
Create, Del
Load, Save



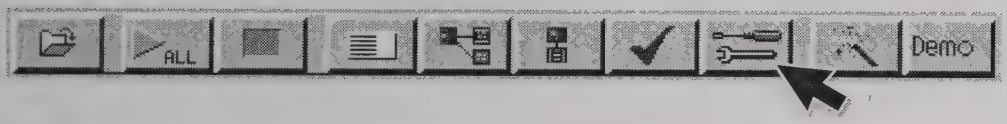

File Edit Search Navigate Help
Configuring the Network
NOTE
This operation may require System Administration Privileges.
You configure a network to set connectivity between all other networks and computers on those networks. With a properly configured network, you can interact with other computers to run the logic analysis system as well as perform file operations or run programs on other computers.
Network Setup
1. From the Networking tab in the System Administration Tools window, select Network Setup....
2. Select Networking Enable.
3. Type the Hostname
4. Type the Internet Address (IP).
5. Type the Gateway Name
6. Type the Gateway IP
7. Type the Subnet Mask
8. Select OK.
NOTE

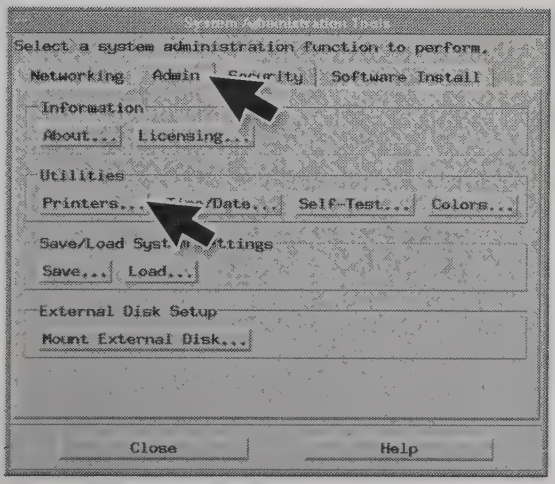


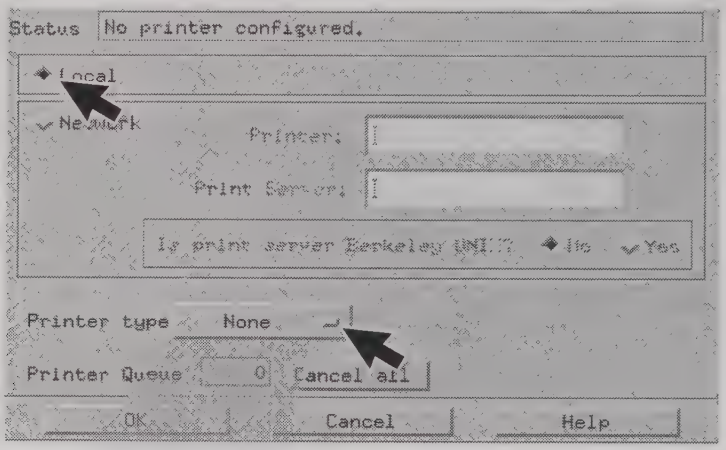
(Your printer)



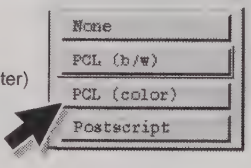
16700B or 16702B

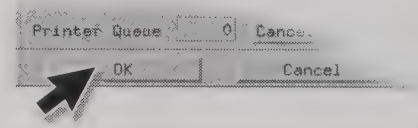


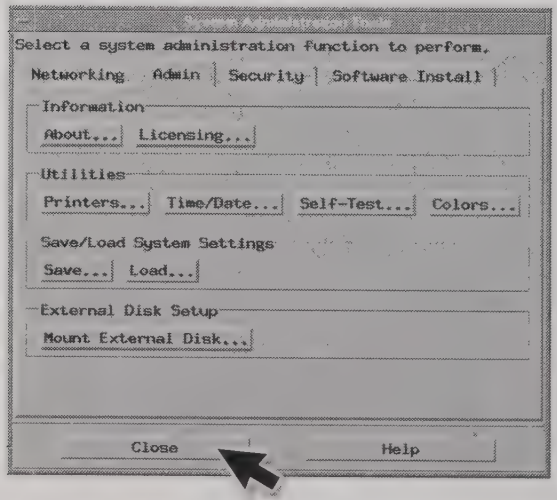




(Your printer)







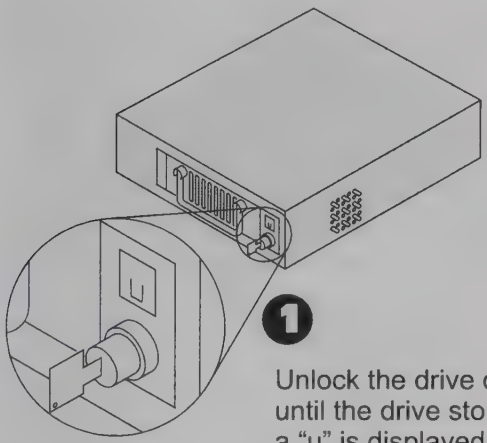
Note!

Refer to “Network Printer Setup” in the online help for networked printers.

Printer Setup
Done

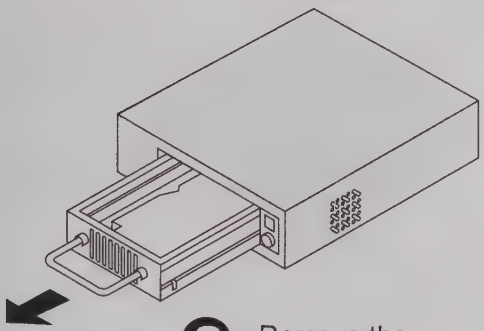
as External Data Drive (Option 008) for 16700B and 16702B

To set the address.....

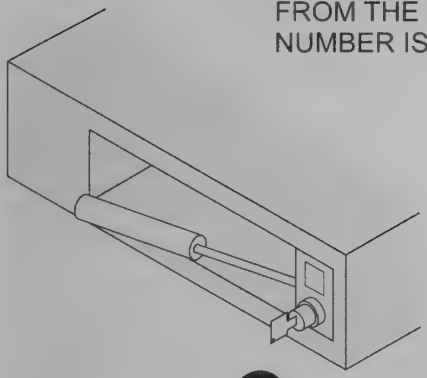


1

Unlock the drive carrier. Wait until the drive stops spinning and a "u" is displayed as shown. DO NOT REMOVE THE CARRIER FROM THE FRAME WHILE THE NUMBER IS FLASHING.



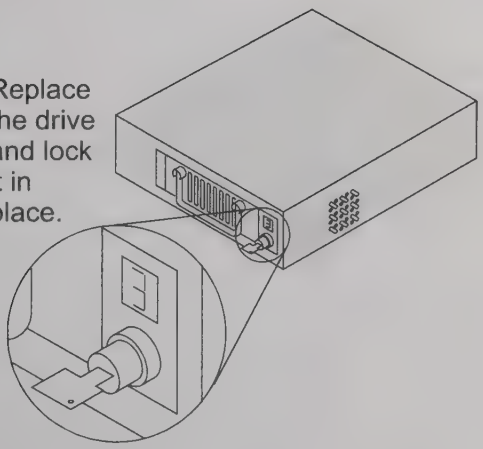
2 Remove the drive.



3

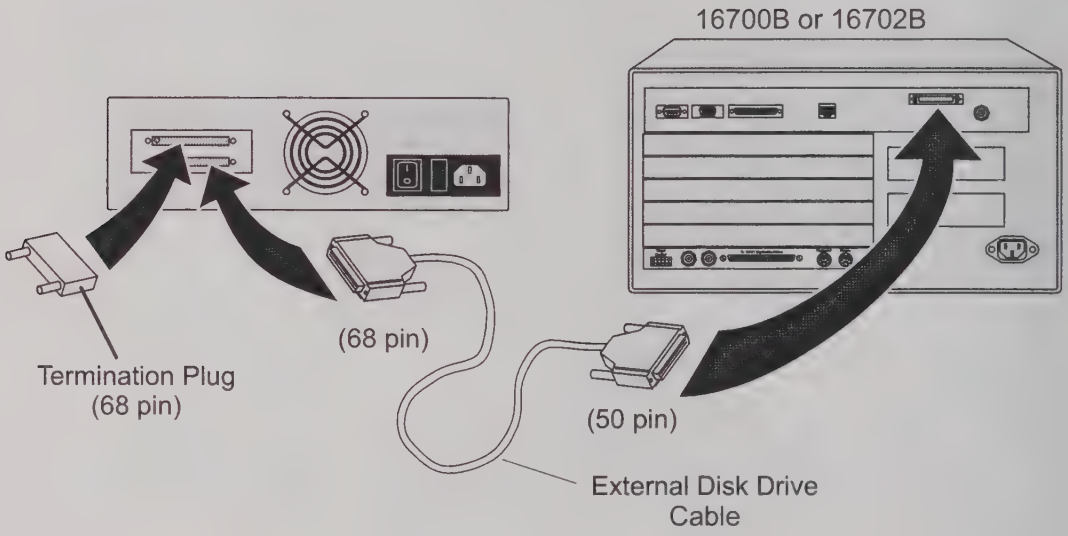
Set the External Disk drive address to 3 or 4. Use the alignment tool supplied with the drive. The rotating switch is located inside the frame.

4 Replace the drive and lock it in place.

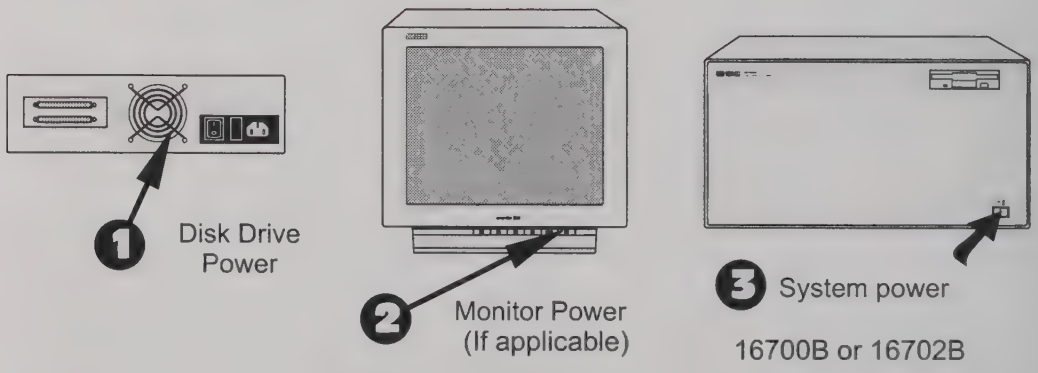


as External Data Drive (Option 008) for 16700B and 16702B

Connect the drive to the SCSI-II port.

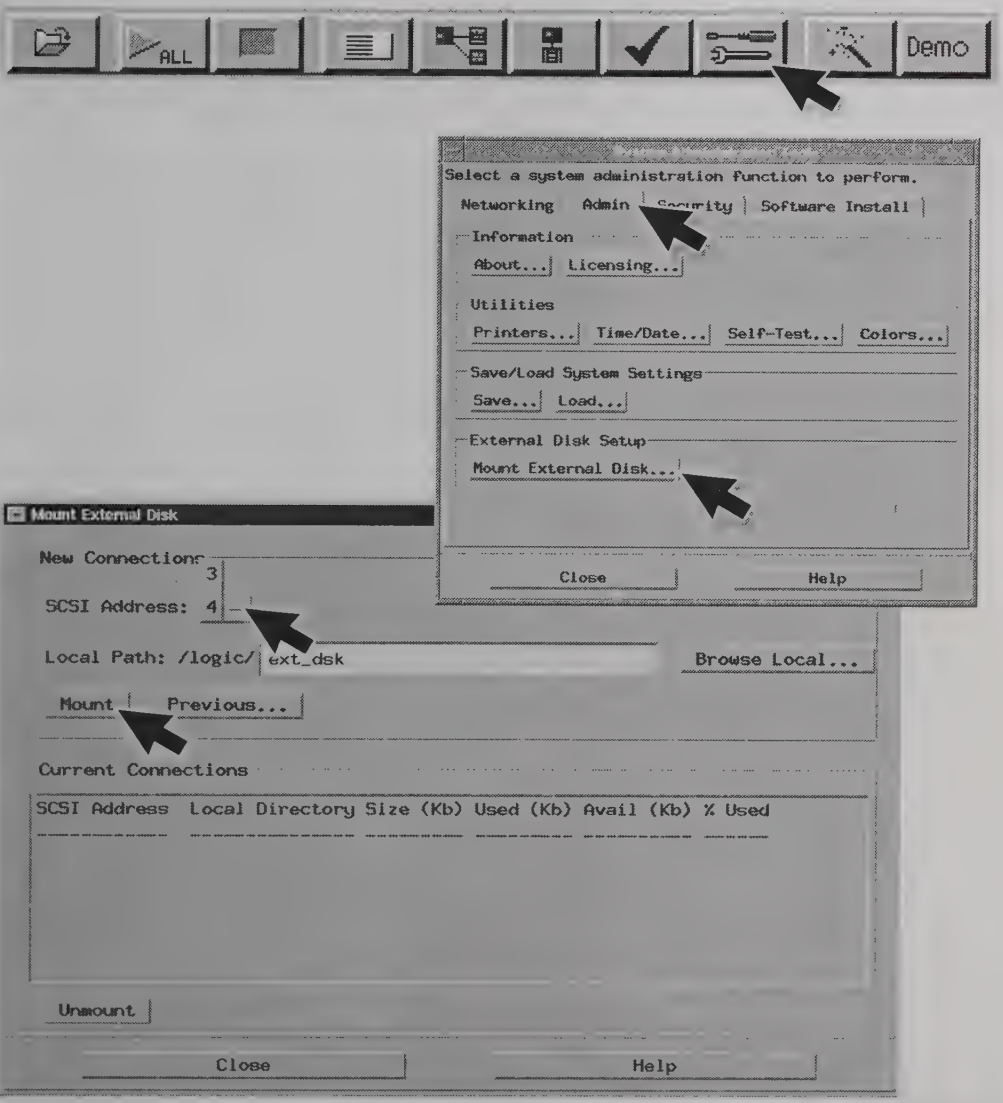


To power up the system.....



as External Data Drive (Option 008) for 16700B and 16702B

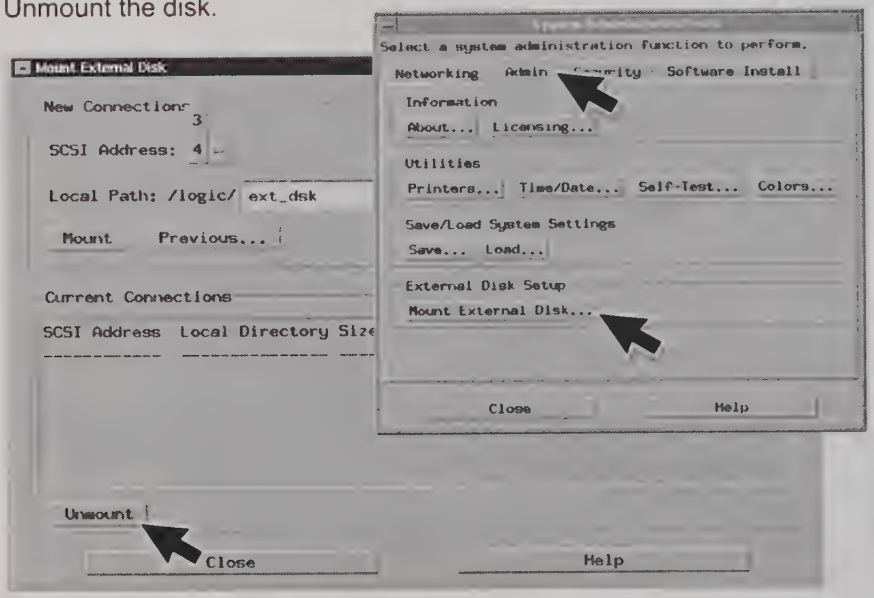
To mount the disk .....

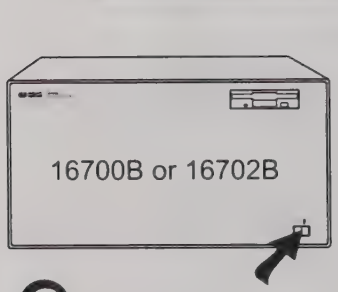


as External Data Drive (Option 008) for 16700B and 16702B

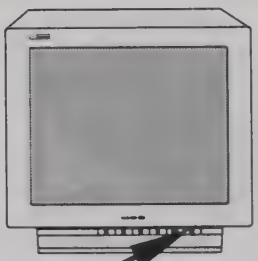
To power down the system.....

1. Unmount the disk.

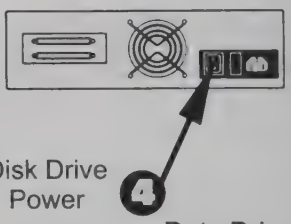




2. System power



3. Monitor Power (If applicable)

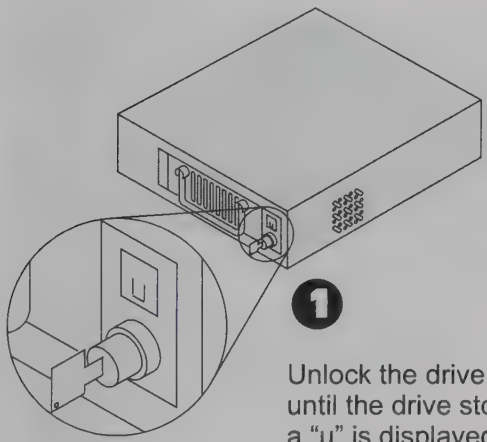


4.

Done

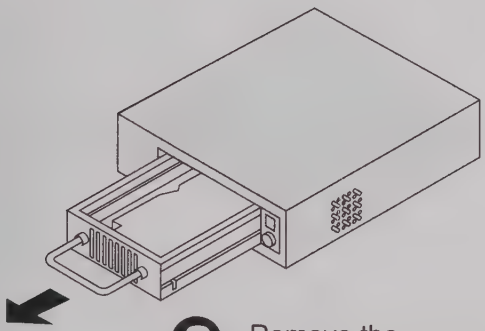
as Removable Boot Drive (Option 009) for 16700B and 16702B

To set the address.....

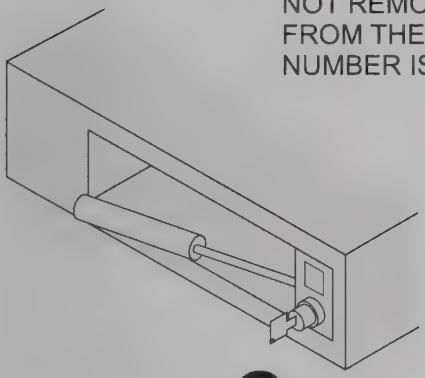


1

Unlock the drive carrier. Wait until the drive stops spinning and a "u" is displayed as shown. DO NOT REMOVE THE CARRIER FROM THE FRAME WHILE THE NUMBER IS FLASHING.



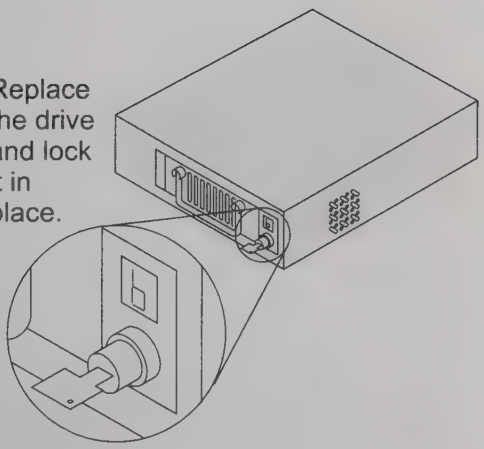
2 Remove the drive.



3

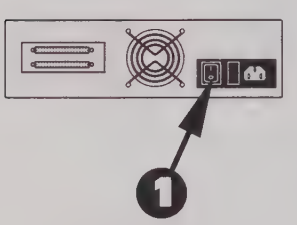
Set the External Disk drive address to 6. Use the alignment tool supplied with the drive. The rotating switch is located inside the frame.

4 Replace the drive and lock it in place.

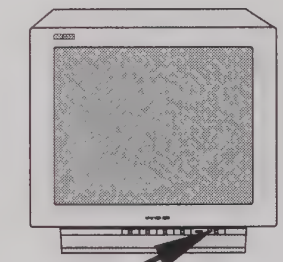


as Removable Boot Drive (Option 009) for 16700B and 16702B

To power up the system.....



1 Disk Drive Power



2 Monitor Power (If applicable)

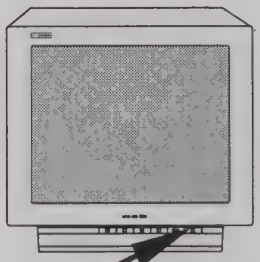
3 System power

16700B or 16702B

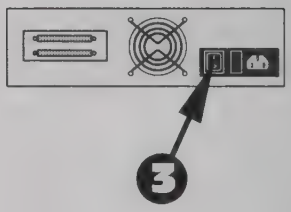
To power down the system.....

1 System power

16700B or 16702B



2 Monitor Power (If applicable)



3 Disk Drive Power

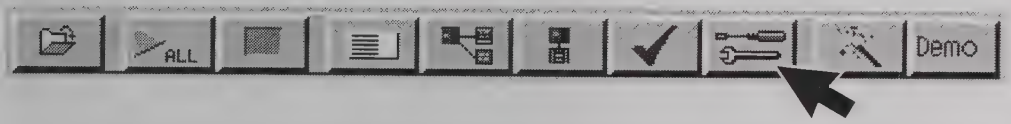
Boot Drive

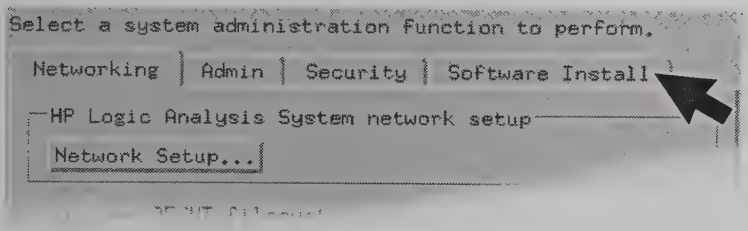
Done

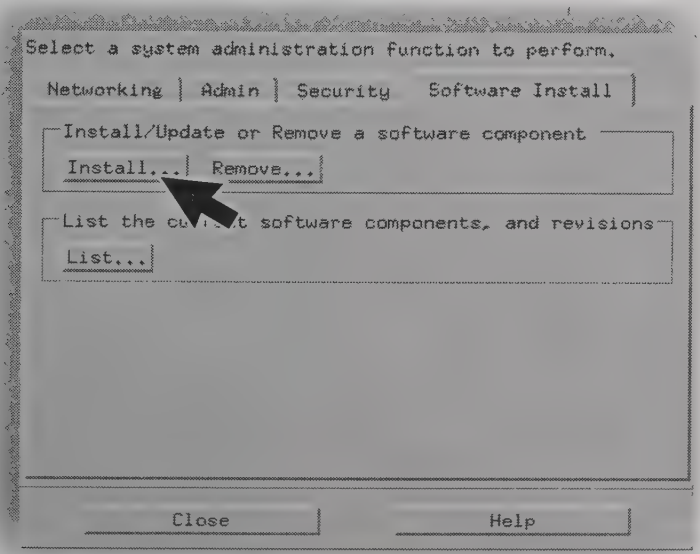
Note!

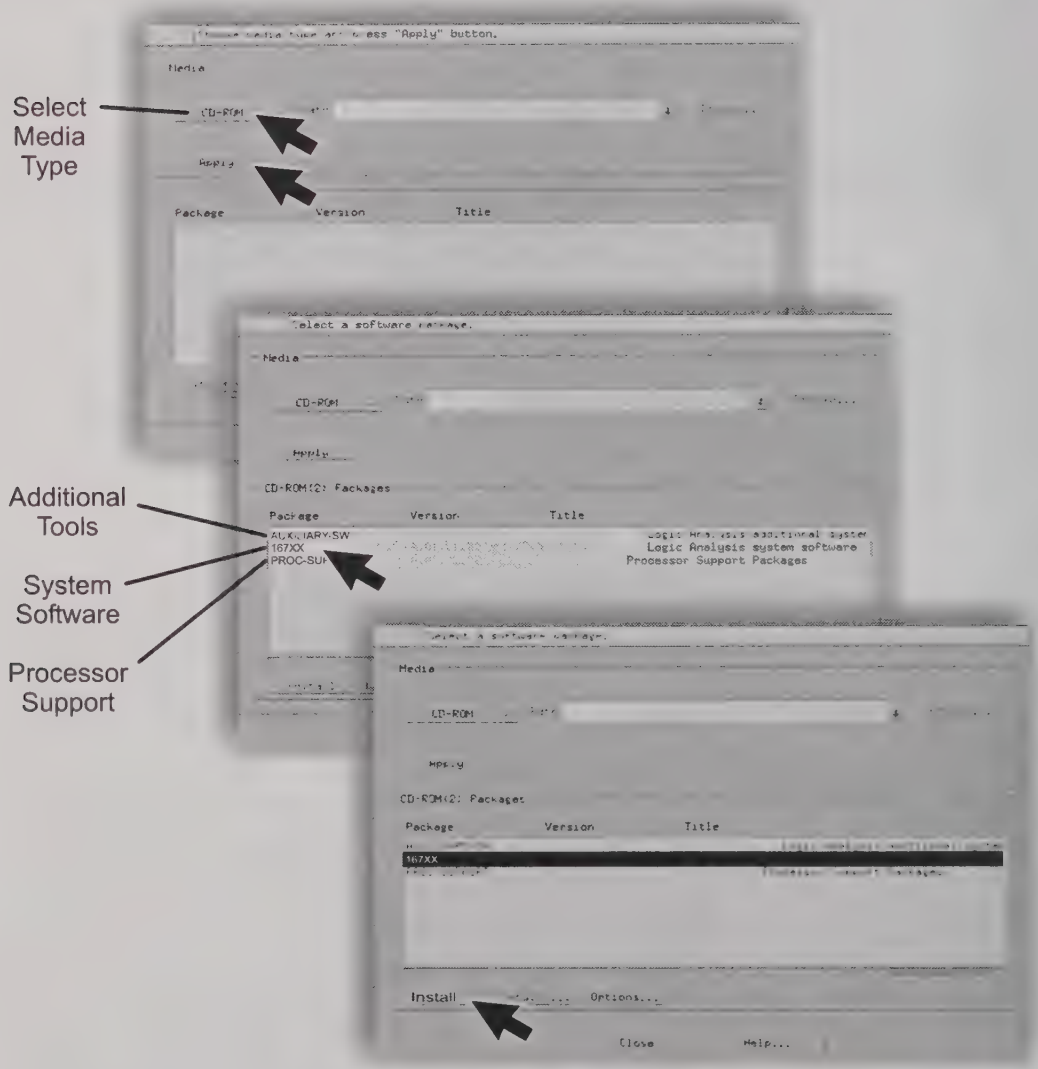
When a system is shipped, the factory installs the current operating system and ordered processor support packages and tools.

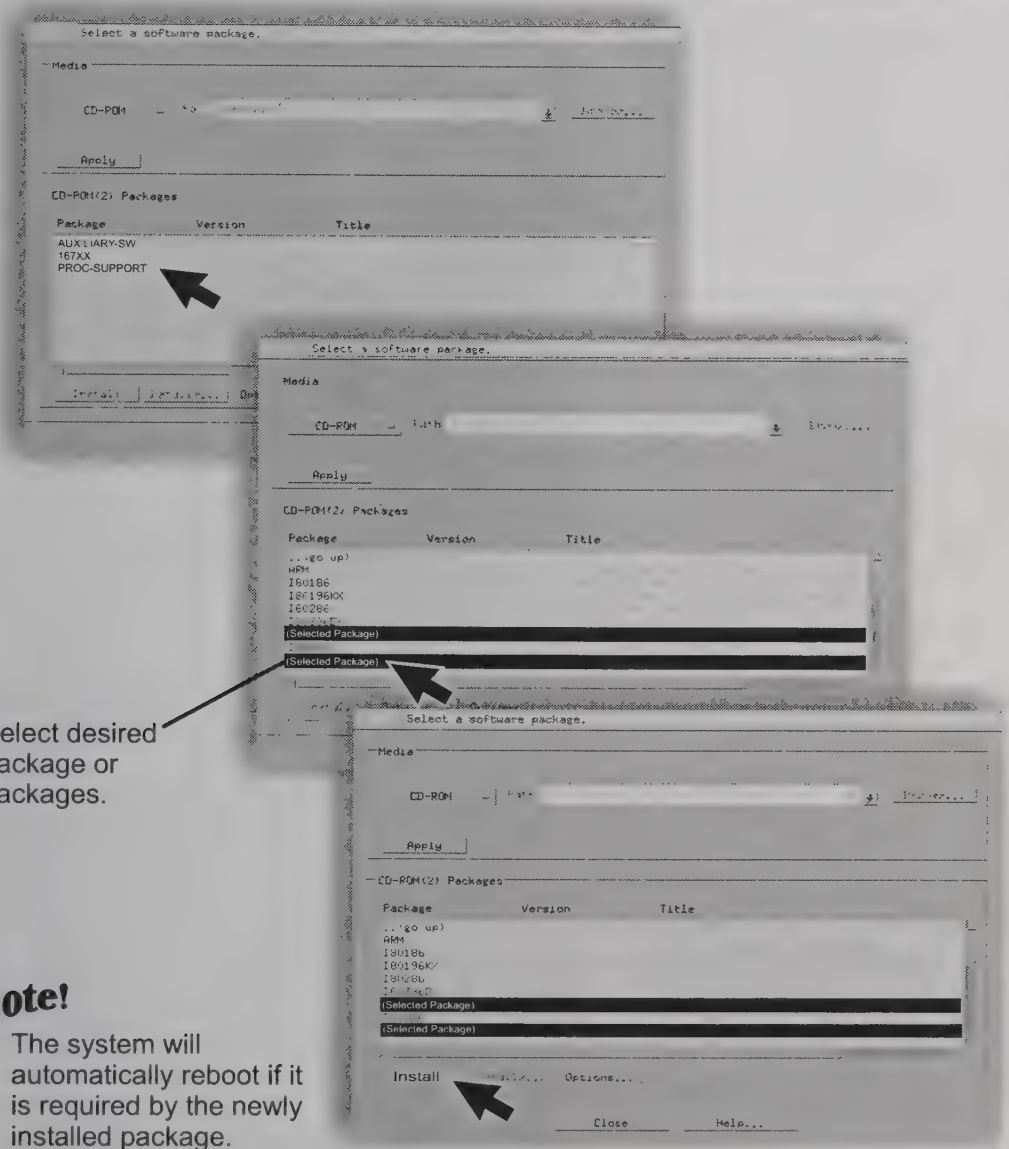
The latest software update is available at www.software.cos.agilent.com/16700.








Select Media Type
Additional Tools
System Software
Processor Support
Media
CD-ROM
Apply
Package
Version
Title
CD-ROM(2) Packages
167XX
Logic Analysis system software
Processor Support Packages
Install...
Options...
Close
Help...



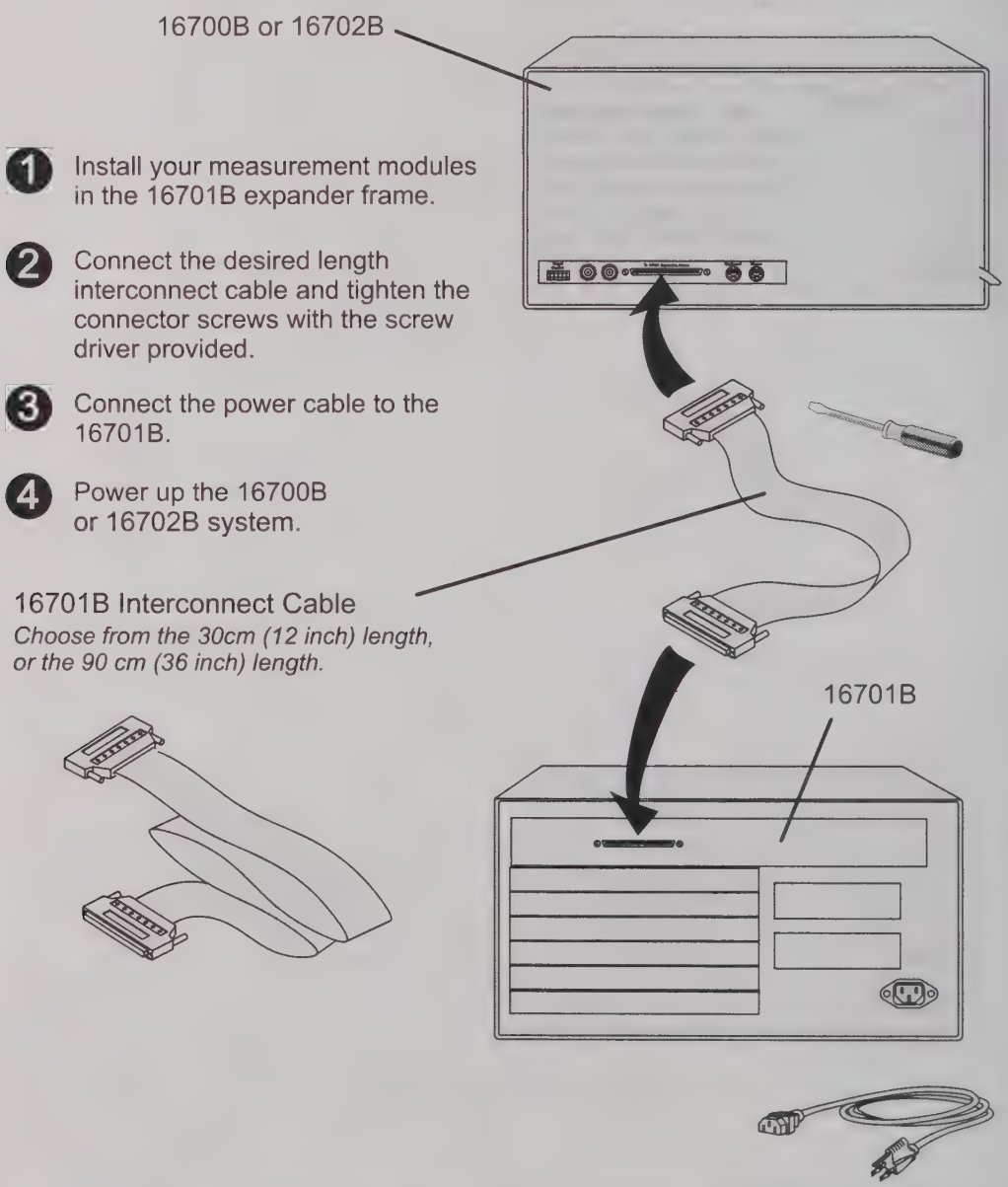
Select desired package or packages.

Note!

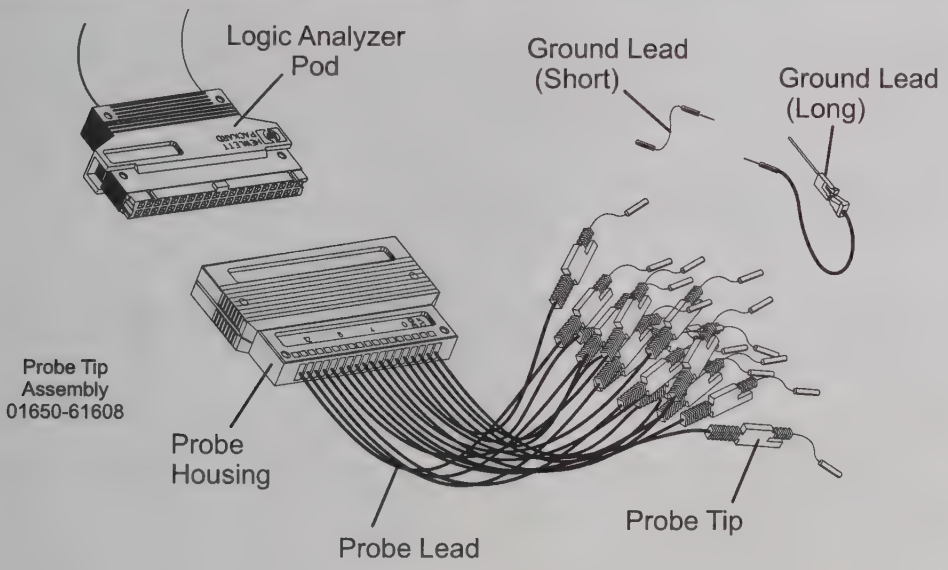
The system will automatically reboot if it is required by the newly installed package.

Software Installation

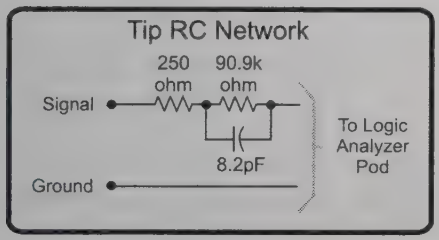
Done

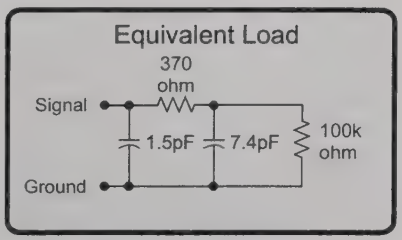

16700B or 16702B
1 Install your measurement modules in the 16701B expander frame.
2 Connect the desired length interconnect cable and tighten the connector screws with the screw driver provided.
3 Connect the power cable to the 16701B.
4 Power up the 16700B or 16702B system.
16701B Interconnect Cable
Choose from the 30cm (12 inch) length, or the 90 cm (36 inch) length.
16701B

General-Purpose Probing



General-purpose probing requires connecting probe leads to individual signal lines. It is generally the most cumbersome method, but it is also the most flexible. Because of the passive design of the probe, there are no active circuits at the outer end of the cable.





Includes logic analyzer

The advantages of this are:

- High input impedance. *(See Equivalent Load.)*
- Signal ground at the probe tip for high-speed timing signals.
- Inexpensive, removable probe tip assemblies.

General-Purpose Probing

The signal and ground leads can be connected directly to the target system. This requires installing 0.63 mm (0.025 inch) square pins, or round pins with a diameter between 0.66 and 0.84 mm (0.026 and 0.033 inch) directly on the board. You can also use an IC test clip with pins with those dimensions.

You can also connect the leads using through-hole grabbers, which have small enough hooks to fit around adjacent IC pins, or by using surface-mount grabbers designed for fine surface-mount component leads.

Proper grounding will improve the signal quality and is essential for high speed measurements. Each pod has a pod ground lead, which must be used. You can use only this ground, but signal quality for high speed signals will be poor.

For better results, ground not only the pod, but every third or fourth lead.

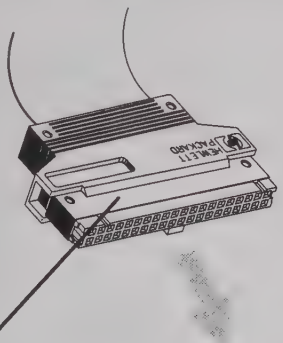
For best results, and when probing signals with rise and fall times of 1 ns or less, ground each probe lead with no more than a 2-inch ground lead as well as grounding the pod with the pod ground lead.

- You can replace damaged leads. Disconnect individual probe leads by pushing on the latch at the lead base with a ball-point pen.
- Connect grabbers to the leads by slipping the end of the lead over the recessed pin located in the side of the grabber.

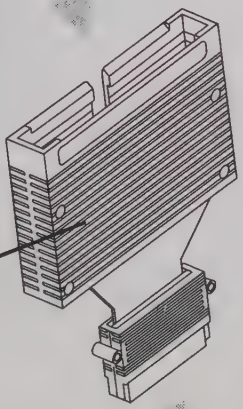
Note! The minimum input overdrive is the greater of 250 mV or 30% of signal amplitude. The maximum probe input voltage of each logic analyzer probe is 40 volts peak.

Isolation Adapter

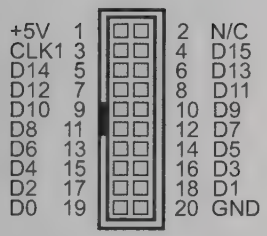
The logic analyzer cable must have the proper RC network at its input in order to acquire data correctly. The optional Isolation Adapter incorporates the RC network into a convenient package. It also reduces the number of pins required for the header on the target board from 40 pins to 20.



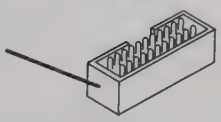
Logic Analyzer Pod



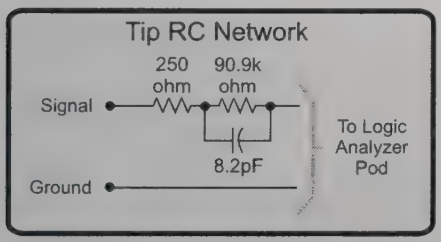
Isolation Adapter

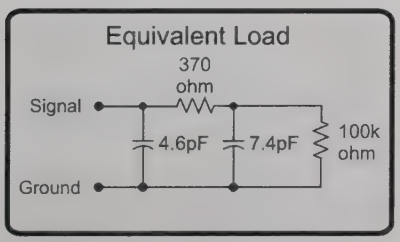


Target Connector Pinout (Top View)



Target Connector

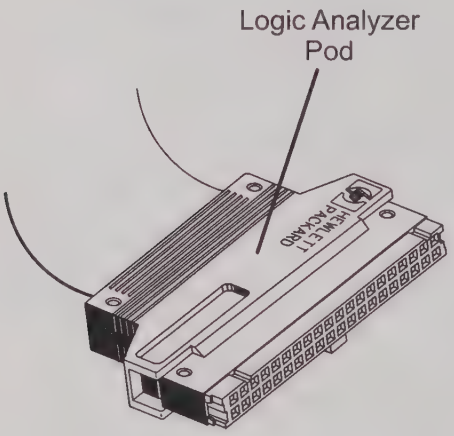




Includes logic analyzer and connector

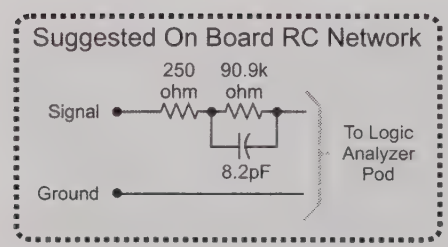
Connecting Probes to a Target System Directly

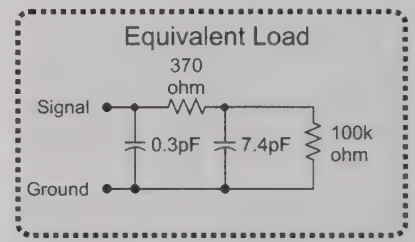
You can connect the logic analyzer cable directly to a 40-pin connector, but you must install the proper RC network directly onto the target system board. Agilent Technologies recommends two types of RC networks which are described in detail in the Application Note: ***Probing Solutions for Agilent Logic Analysis Systems.***



+5V	1	2	Power GND
CLK1	3	4	Signal GND
N/C	5	6	Signal GND
D15	7	8	Signal GND
D14	9	10	Signal GND
D13	11	12	Signal GND
D12	13	14	Signal GND
D11	15	16	Signal GND
D10	17	18	Signal GND
D9	19	20	Signal GND
D8	21	22	Signal GND
D7	23	24	Signal GND
D6	25	26	Signal GND
D5	27	28	Signal GND
D4	29	30	Signal GND
D3	31	32	Signal GND
D2	33	34	Signal GND
D1	35	36	Signal GND
D0	37	38	Signal GND
+5V	39	40	Power GND

Target Connector Pinout
(Top View)





Includes on board RC network and logic analyzer

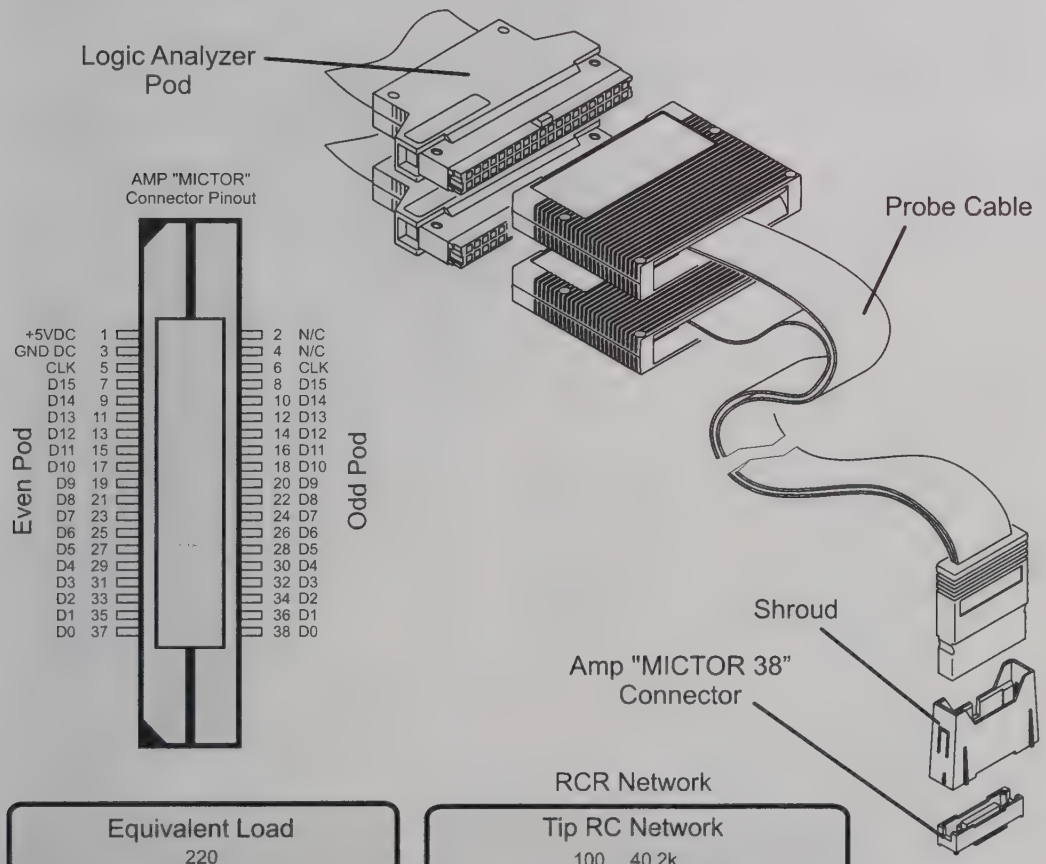
CAUTION

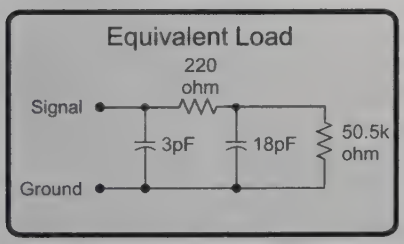
⚠ Do not exceed 0.33 amps per cable, or the cable will be damaged. The cable ground lines are chassis (earth) grounds and not "floating" grounds. All the lines are woven into a flat ribbon that is 137.16 cm (4.5 feet) long.

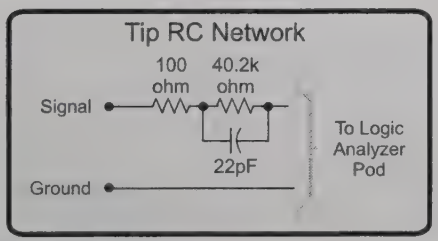
For more information, contact your Agilent Technologies Sales office and ask for the Application Note: ***Probing Solutions for Agilent Logic Analysis Systems.*** *(Or download from the web at: http://www.agilent.com/find/go/LA-AppNotes/)*

38-Pin Low-voltage Probe (With Tip RC Network)

The E5339A 38-pin low-voltage probe provides a convenient and easy way to connect two Agilent logic analyzer probe cables to a small area of a target system. The E5339A is capable of capturing data with voltage swings as low as 250mV Peak-to-Peak. An Amp "MICTOR 38" connector must be installed on your target system board.



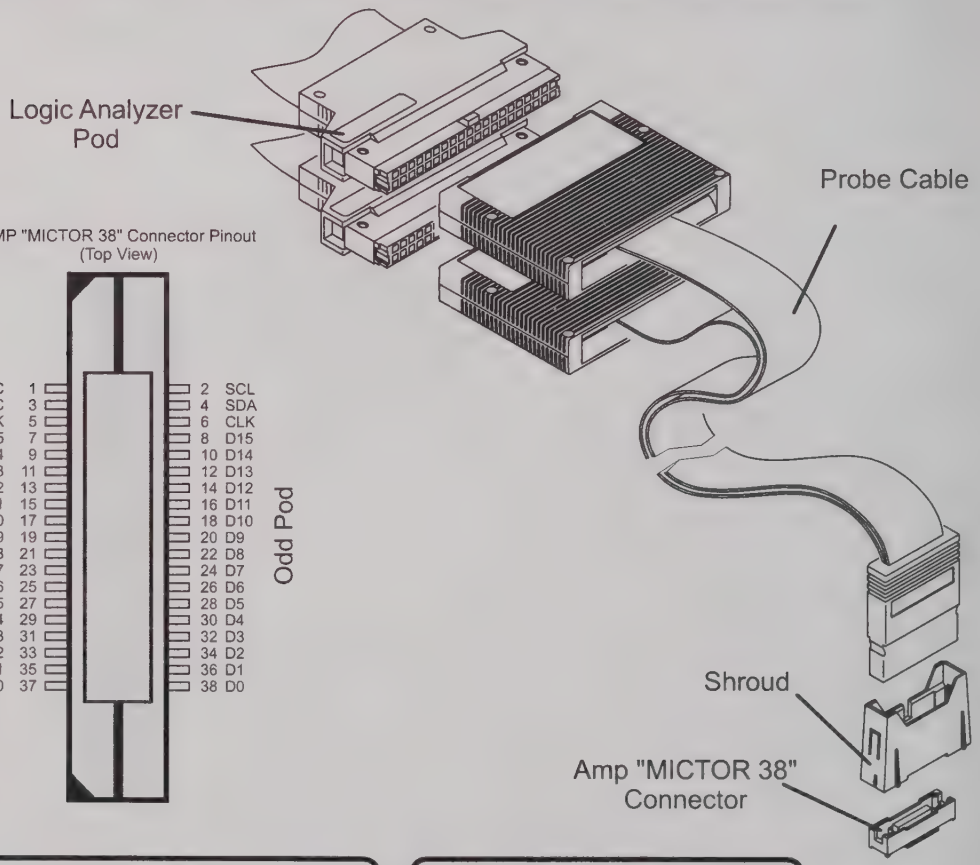


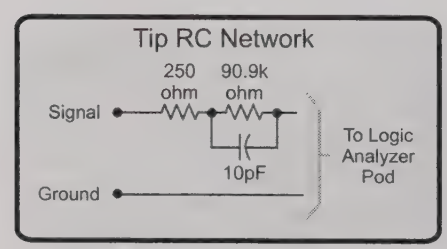


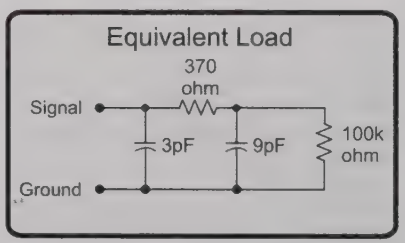
Includes logic analyzer and MICTOR connector.

38-Pin Probe (With Tip RC Network)

The E5346A 38-pin probe provides a convenient and easy way to connect an Agilent logic analyzer to the signals on your target system for packages that are difficult to probe, such as BGAs. An Amp "MICTOR 38" connector must be installed on your target system board.



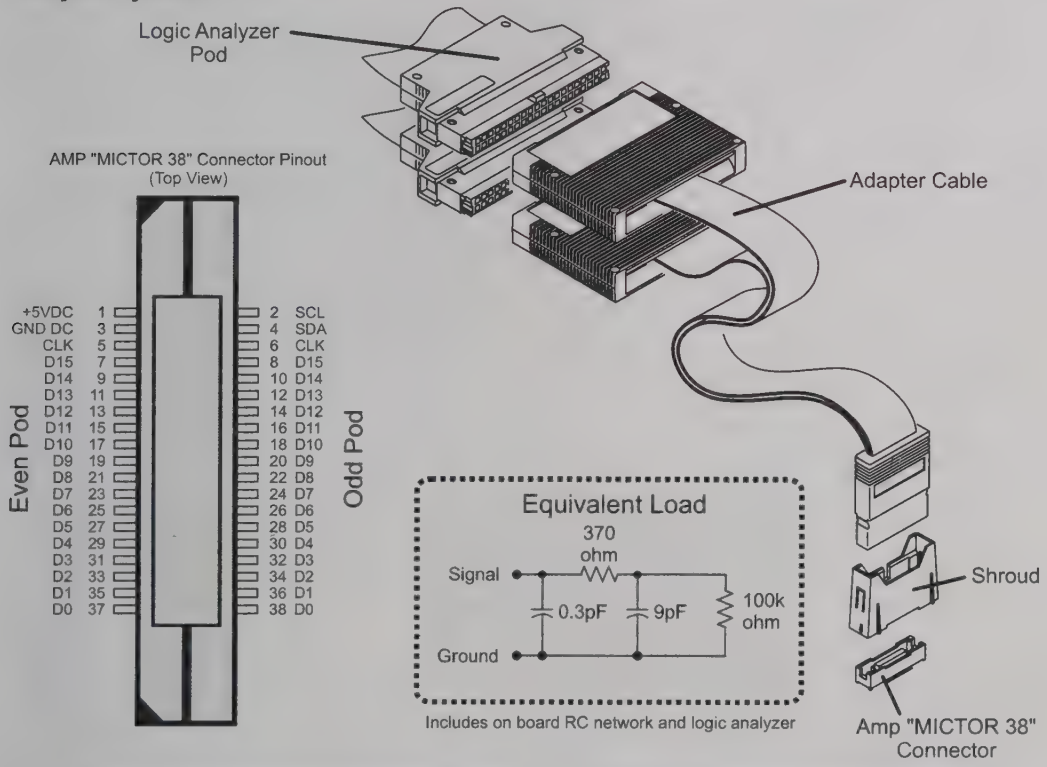


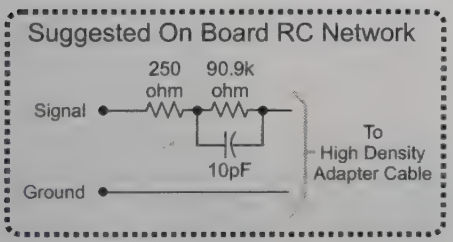


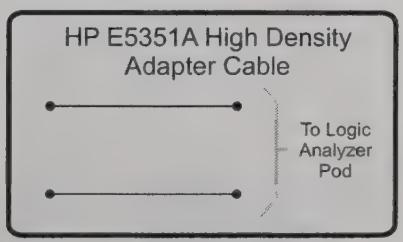
Includes logic analyzer and MICTOR connector.

38-Pin Adapter Cable (No Tip Network)

The E5351A 38-pin adapter cable provides a convenient and easy way to connect an Agilent logic analyzer to the signals on your target system for packages that are difficult to probe, such as BGAs. The proper RC networks and an AMP "MICTOR 38" connector must be installed on your target system board. See Application Note: ***Probing Solutions for Agilent Logic Analysis Systems.***

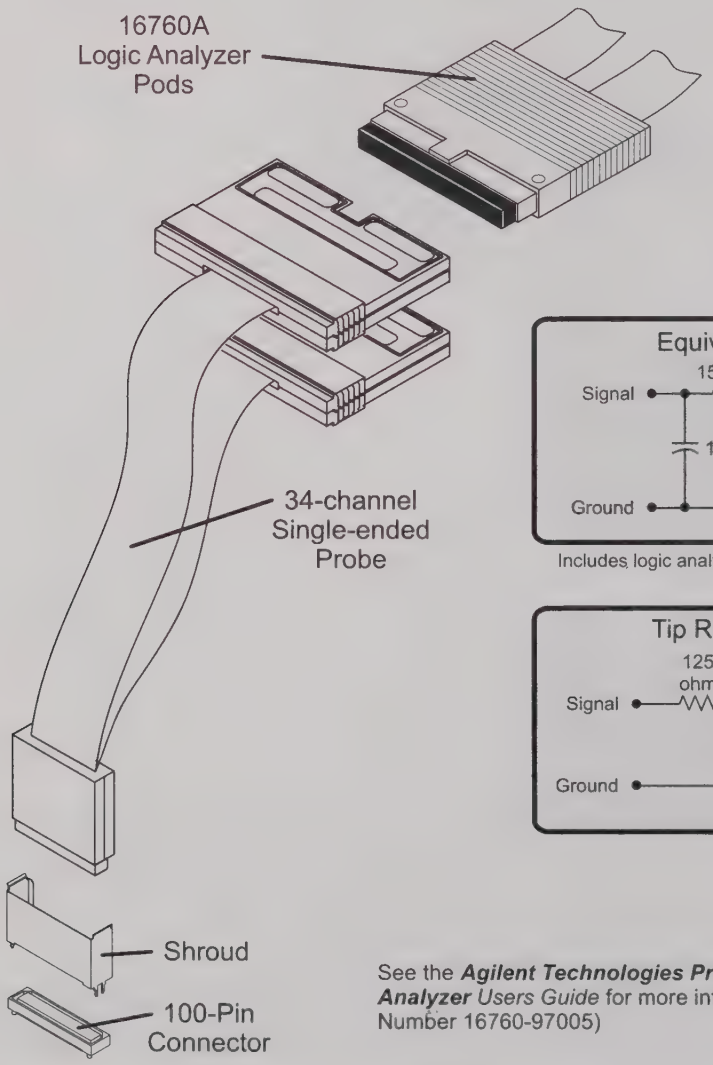


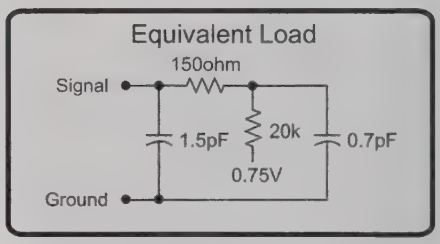




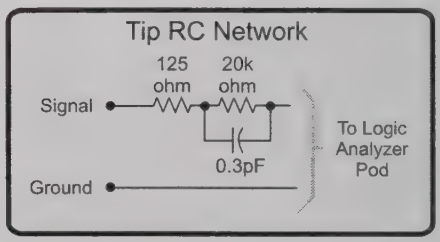
100-Pin Single-ended Probe for the 16760A

The E5378A is a 34-channel 100-pin single-ended probe that is capable of capturing data up to 1.25 Gbits/second with voltage swings as low as 250mV peak-to-peak. A 100-pin connector must be installed on your target system board.





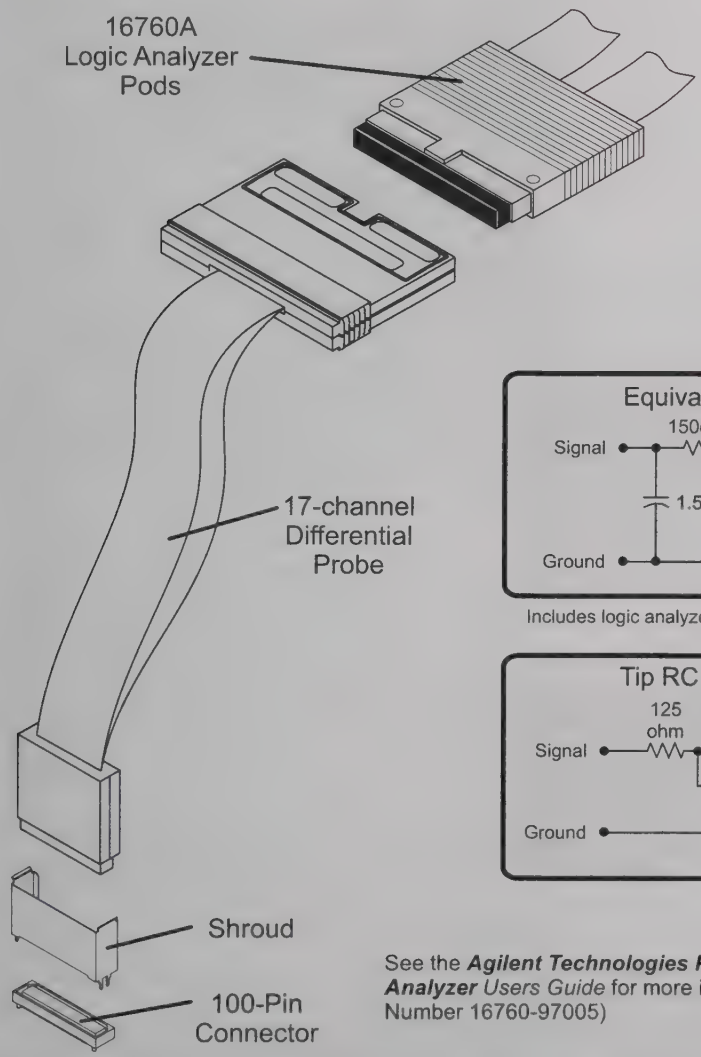
Includes logic analyzer and 100-pin connector

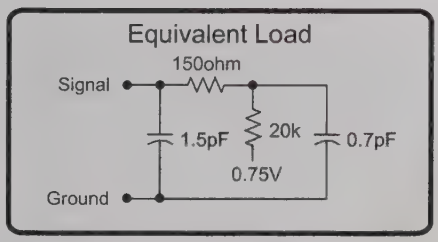


See the ***Agilent Technologies Probes for the 16760A Logic Analyzer*** *Users Guide* for more information. (Publication Number 16760-97005)

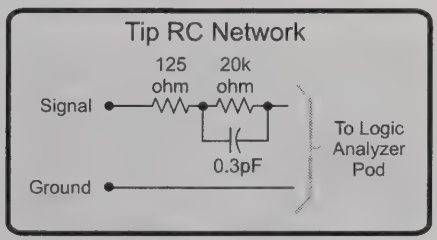
100-Pin Differential Probe for the 16760A

The E5379A is a 17-channel 100-pin differential probe capable of capturing data up to 1.25 Gbits/second with differential voltage swings as low as 200mV. Two E5379A probes are required to support all the inputs on one 16760A. A 100-pin connector must be installed on your target system board.





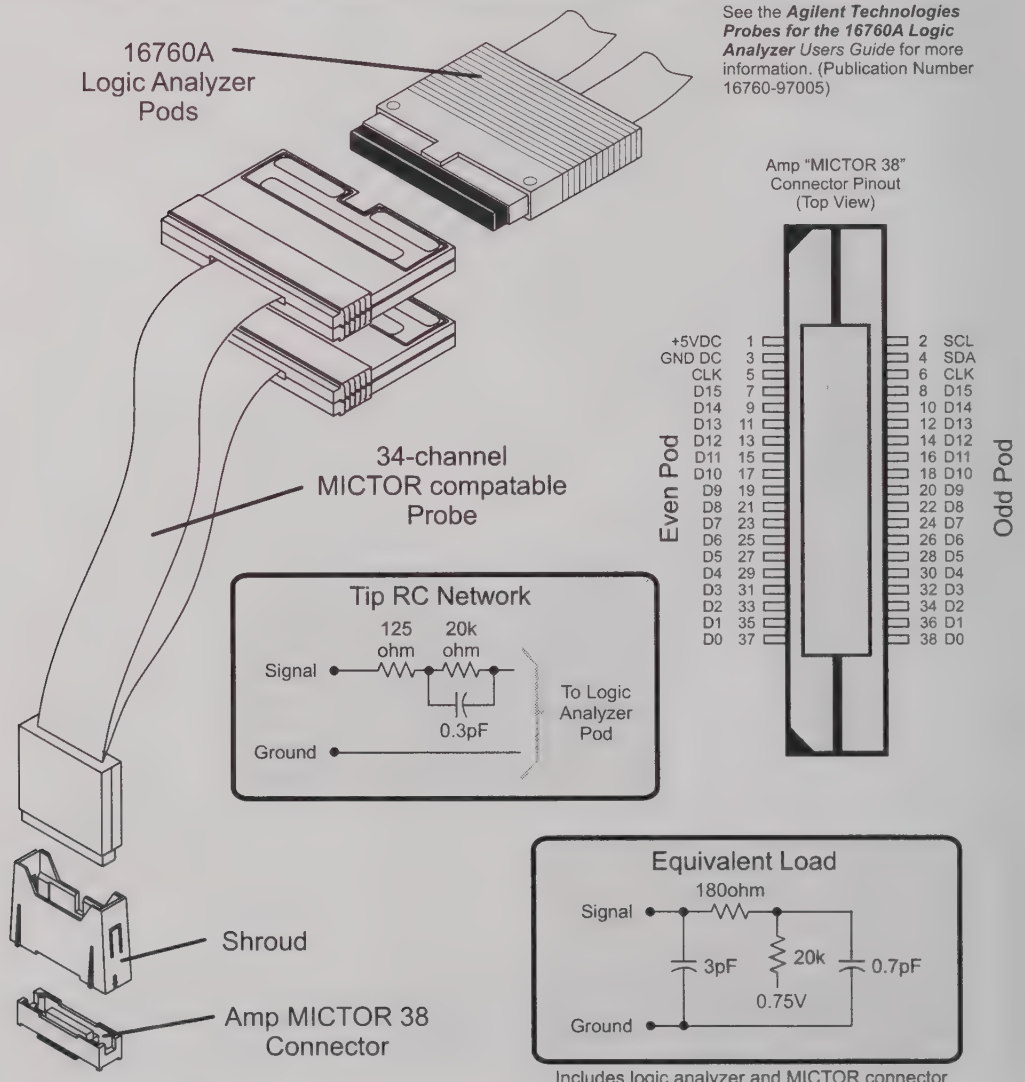
Includes logic analyzer and 100-pin connector



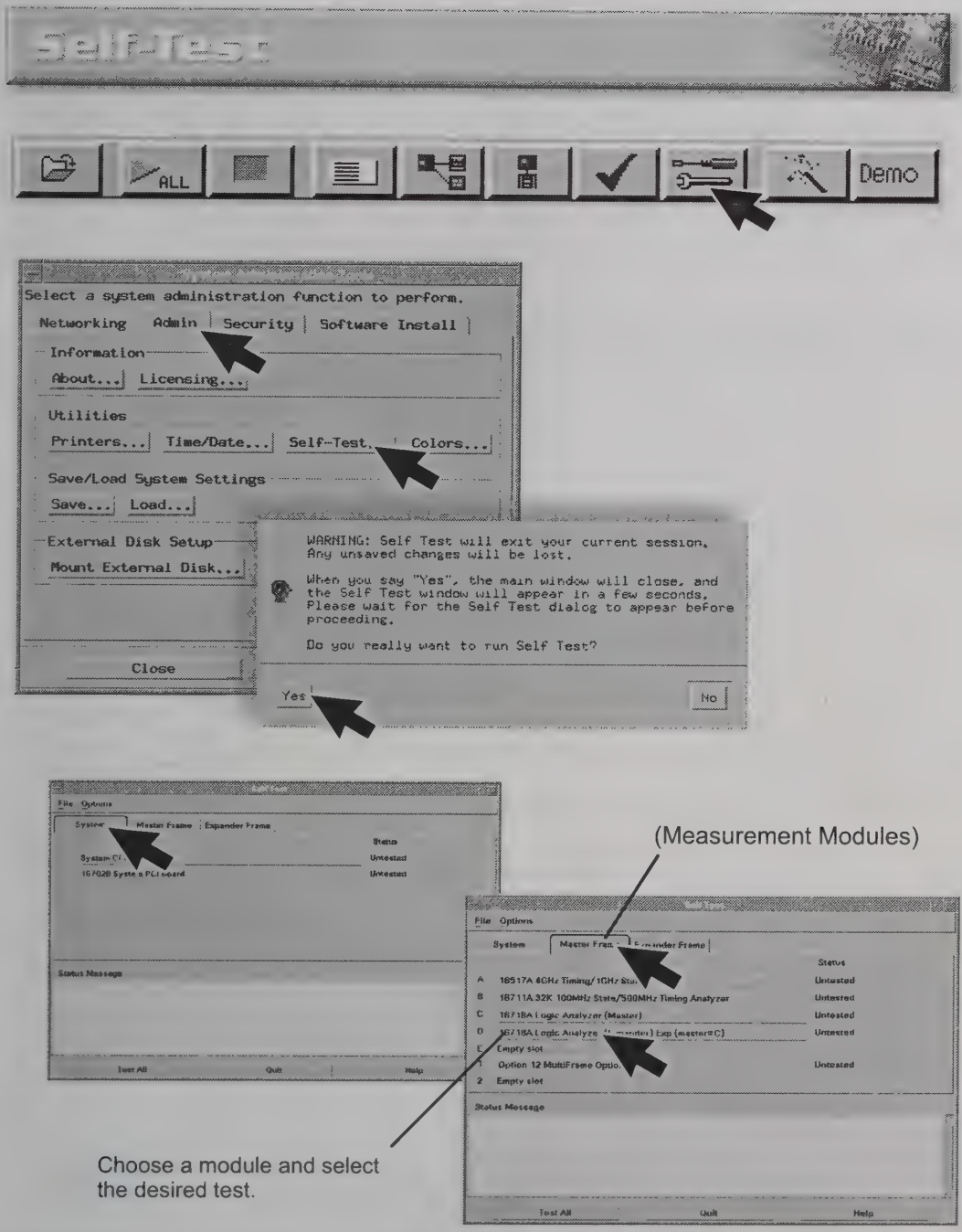
See the ***Agilent Technologies Probes for the 16760A Logic Analyzer*** *Users Guide* for more information. (Publication Number 16760-97005)

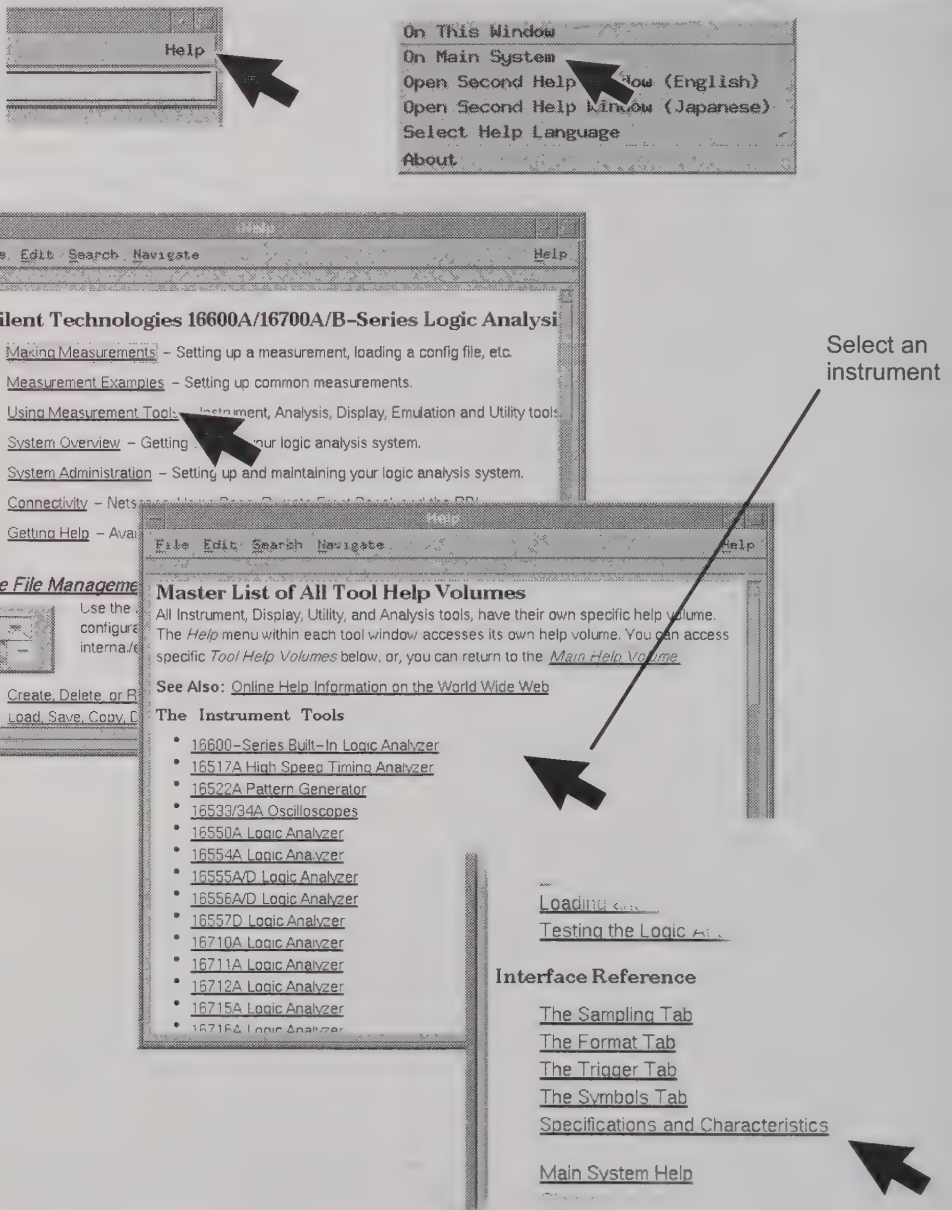
38-Pin Single-ended Probe for 16760A

The E5380A is designed to be compatible with target systems designed for the Agilent E5346A 38-pin Probe. The E5380A probe will connect directly to the same connector and is capable of capturing data up to 600 Mbits/second with voltage swings as low as 300mV peak-to-peak. The probe combines two 17-channel cables into a single-ended 38-pin MICTOR connector.



See the ***Agilent Technologies Probes for the 16760A Logic Analyzer*** *Users Guide* for more information. (Publication Number 16760-97005)


Self Test
ALL
Demo
Select a system administration function to perform.
Networking
Admin
Security
Software Install
Information
About...
Licensing...
Utilities
Printers...
Time/Date...
Self-Test...
Colors...
Save/Load System Settings
Save...
Load...
External Disk Setup
Mount External Disk...
Close
WARNING: Self Test will exit your current session. Any unsaved changes will be lost.
When you say "Yes", the main window will close, and the Self Test window will appear in a few seconds. Please wait for the Self Test dialog to appear before proceeding.
Do you really want to run Self Test?
Yes
No
(Measurement Modules)
Choose a module and select the desired test.


Help
On This Window
On Main System
Open Second Help Window (English)
Open Second Help Window (Japanese)
Select Help Language
About
Help
File Edit Search Navigate Help
Agilent Technologies 16600A/16700A/B-Series Logic Analysi
Making Measurements – Setting up a measurement, loading a config file, etc.
Measurement Examples – Setting up common measurements.
Using Measurement Tools – Instrument, Analysis, Display, Emulation and Utility tools
System Overview – Getting
your logic analysis system.
System Administration – Setting up and maintaining your logic analysis system.
Connectivity – Nets
Getting Help – Avai
The File Manageme
Use the
configura
interna/
Create, Delete, or R
Load, Save, Copy, D
Help
File Edit Search Navigate Help
Master List of All Tool Help Volumes
All Instrument, Display, Utility, and Analysis tools, have their own specific help volume.
The Help menu within each tool window accesses its own help volume. You can access
specific Tool Help Volumes below, or, you can return to the Main Help Volume.
See Also: Online Help Information on the World Wide Web
The Instrument Tools
16600-Series Built-In Logic Analyzer
16517A High Speed Timing Analyzer
16522A Pattern Generator
16533/34A Oscilloscopes
16550A Logic Analyzer
16554A Logic Analyzer
16555A/D Logic Analyzer
16556A/D Logic Analyzer
16557D Logic Analyzer
16710A Logic Analyzer
16711A Logic Analyzer
16712A Logic Analyzer
16715A Logic Analyzer
Select an instrument
Loading
Testing the Logic
Interface Reference
The Sampling Tab
The Format Tab
The Trigger Tab
The Symbols Tab
Specifications and Characteristics
Main System Help

Reinstalling the Operating System.

CAUTION *Read this section carefully before you attempt to reinstall the operating system from the CD-ROM using this procedure.* ***Everything on the hard drive will be overwritten, including user configuration, data files, and license passwords. To save your system's license information, as well as other system settings, refer to "Saving System Settings" and "Reloading System Settings" in this section.***

You will need to connect a keyboard to your 16702B in order to execute disaster recovery procedures.

A batch process is used to autoload the software and then reboot the instrument. The batch process waits for only a short timeout period for user interaction to abort the process. Otherwise, the hard drive will be initialized, the operating system will be uploaded, and the instrument will reboot.

The reinstallation process takes approximately one hour depending on the speed of the attached CD-ROM.

1. *If required, follow the steps in "Saving System Settings" and "Reloading System Settings" to create a backup file of your system settings and license passwords.*

2. Insert the CD-ROM containing the instrument operating software into the CD-ROM drive. Allow a couple of moments for the media to settle after inserting the media.

3. If the LAN cable is connected, disconnect it from the instrument. If needed, turn on the system and initiate the monitor selection mode. (*See the section in this book.)* Otherwise, proceed to step 4.

4. Turn on the instrument and repeatedly press the [ESC] key on the keyboard to terminate the boot process. When the boot process is terminated, a prompt will be displayed.

   ```
   Main Menu: Enter command >
   ```

   Press: `<Enter>`

   Type: `SEA <Enter>`

   The instrument will search for all viable boot devices on the bus, including the CD-ROM drive. The display will then show the boot devices:

   ```
   Path Number       Device Path         Device Type
   ------------      ------------        ------------------
   P0                SESCSI.6.0          IBM     DNES-309170W
   P1                SESCSI.1.0          PLEXTOR CD-ROM PX-40TS
   ```

Reinstalling the Operating System.

5. At the prompt:

```
Main Menu: Enter command >
```

Type: `BO P1 <Enter>`

```
Interact with IPL (Y, N, Q) ?>
```

Type: `N <Enter>`

6. After about 30 seconds you will see the message:

```
WARNING: The configuration information calls for a non-interactive
installation.
Press <Return> within 10 seconds to cancel batch mode
installation:
```

7. **To abort the reinstallation process at this point:**
Press the [Return] key on the keyboard within 10 seconds. (If you do nothing within the 10 second timeout, the reinstallation process will begin. The instrument will completely reload the operating system software onto the hard disk drive.)

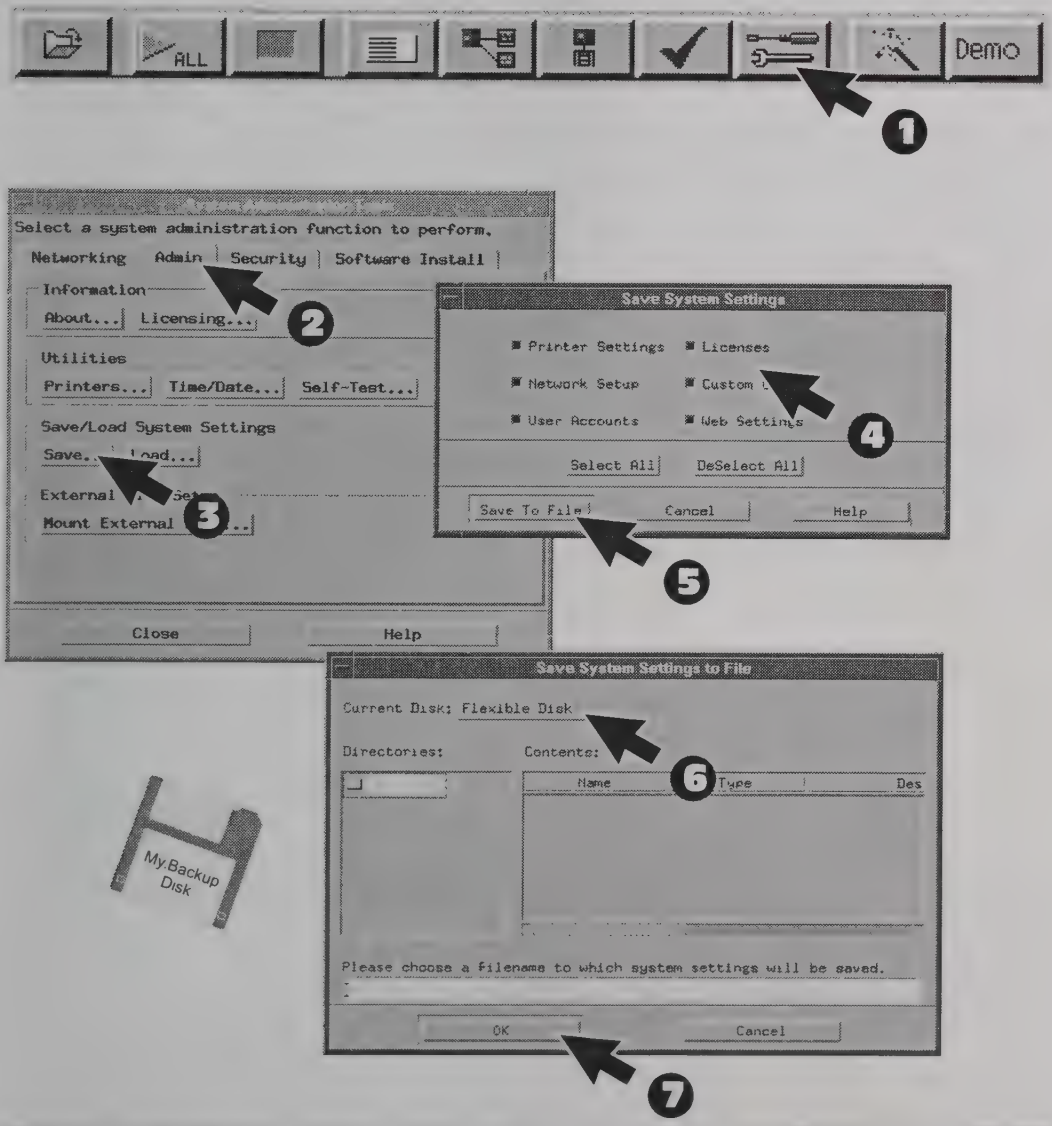
8. Processor Support Packages, Auxiliary Software, and user files must be installed manually once the operating system has been reinstalled.

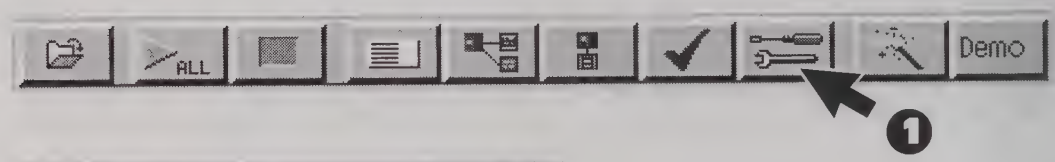
9. Follow the steps in “Reloading System Settings” to restore any license passwords and system settings saved in step 1.

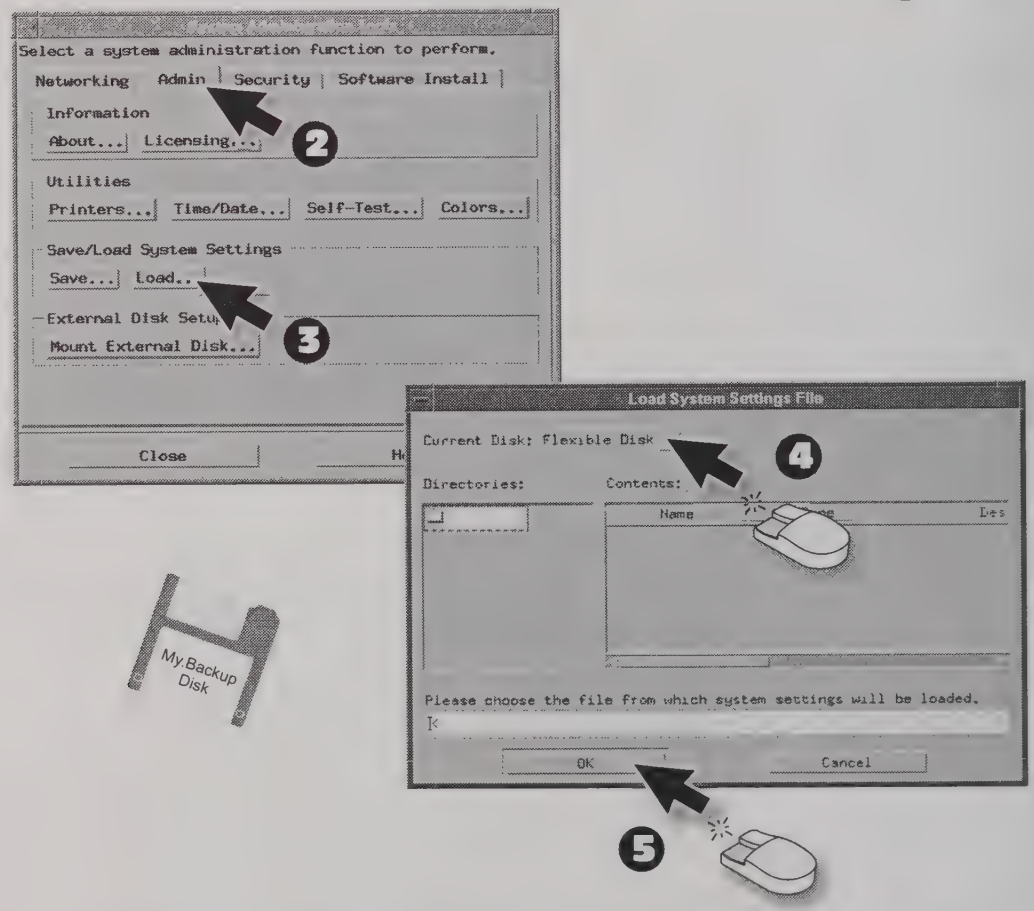
Done

Saving System Settings

By saving your system settings to a flexible disk or a mounted directory, you create a backup file that can be used to quickly setup systems, or restore current system settings after the Disaster Recovery procedure.





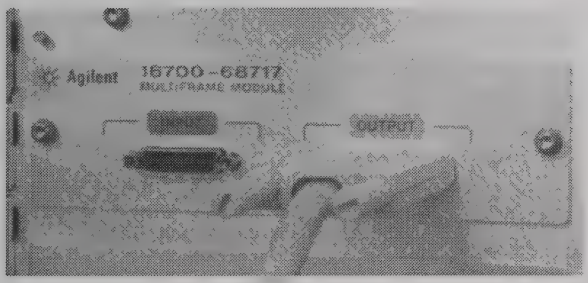


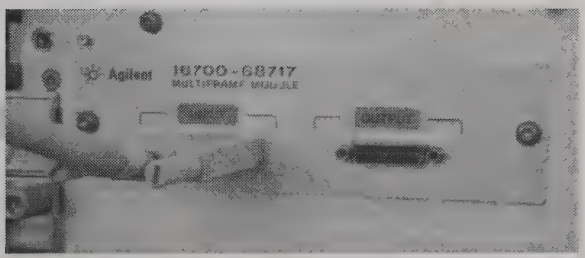
If an item is not valid, or was not initially saved to the file, the selection will be greyed out in the interface. Also, if no file extension is added, a "set" extension is automatically added for you.

As many as eight 16700B's and/or 16702B's with Agilent 16700-68717 multiframe modules installed may be connected together.

The frame at the beginning of the series must have its **INPUT** port open and the last frame in the series must have its **OUTPUT** port open.

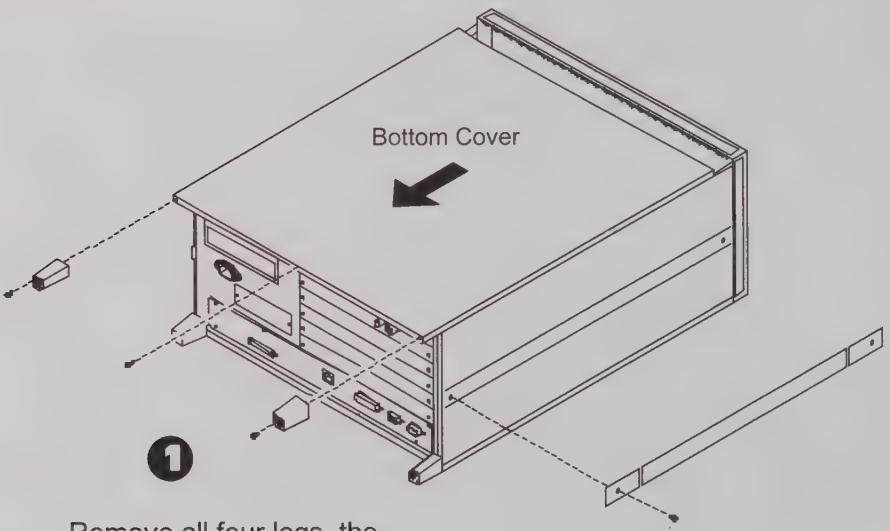
Multiframe requires software Rev. A.02.00.00 or higher. Agilent 16700B and 16702B logic analysis systems ordered with the multiframe option installed will have the current operating system software installed.



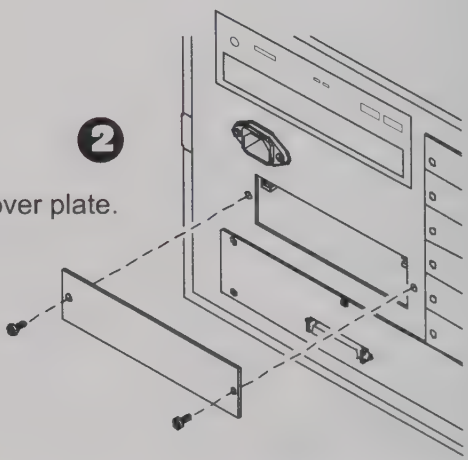


Install the Multiframe Modules into 16700B or 16702B frames.

CAUTION Be sure to unplug the power cable before beginning this procedure.



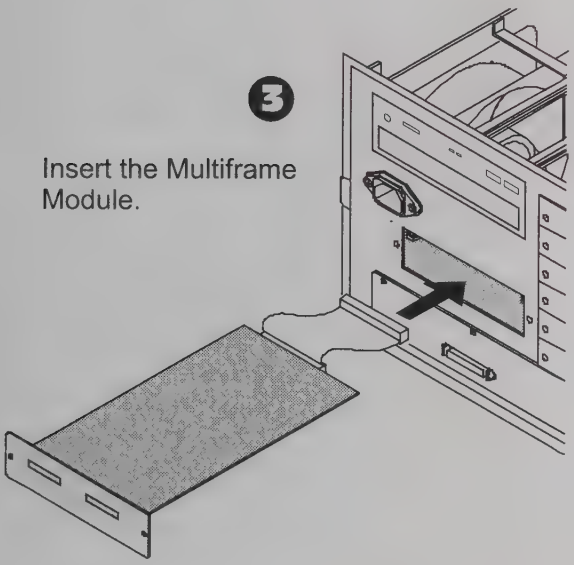
Remove all four legs, the bottom cover, and the handle.



Remove the cover plate.

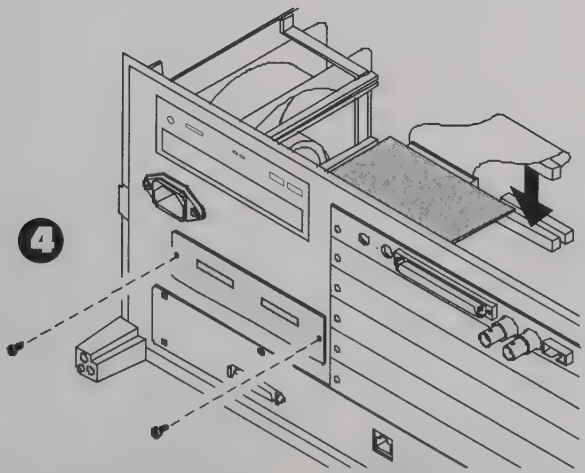
3

Insert the Multiframe Module.



4

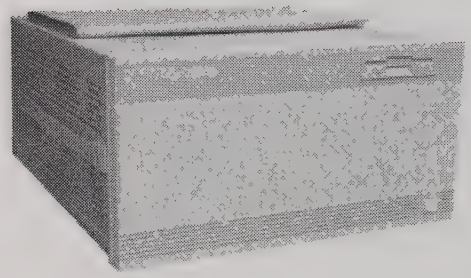
Insert the screws as shown. Reassemble the frame.

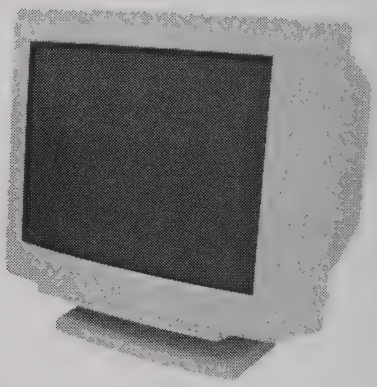


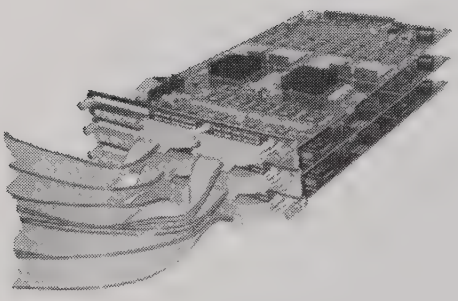
Instrument Cabinet and Module Front Panels

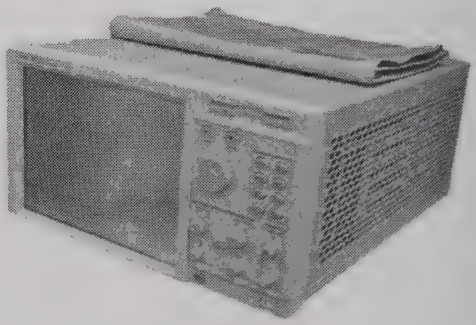
CAUTION

With the instrument unplugged, use mild soap and water to clean the cabinet of the instrument or the front of the modules. Harsh soap might damage the water-based paint. ***Do not immerse the instrument or modules in water.***



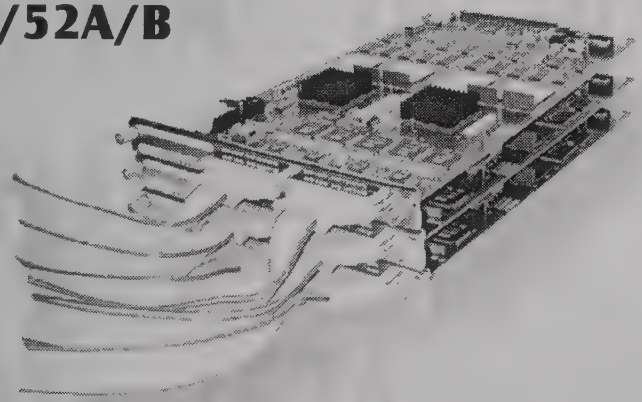






Measurement Modules

16517/18A
16522A
16533/34A
16557D
16710/11/12A
16715/16/17A
16718/19A
16720A
16740/41/42A
16750/51/52A/B
16760A

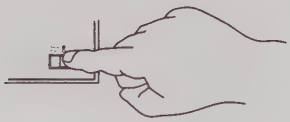


---

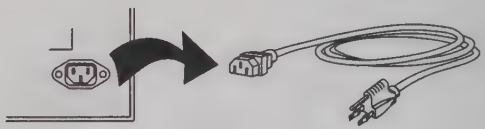
for 16700A/B
16701A/B
16702A/B

General Installation

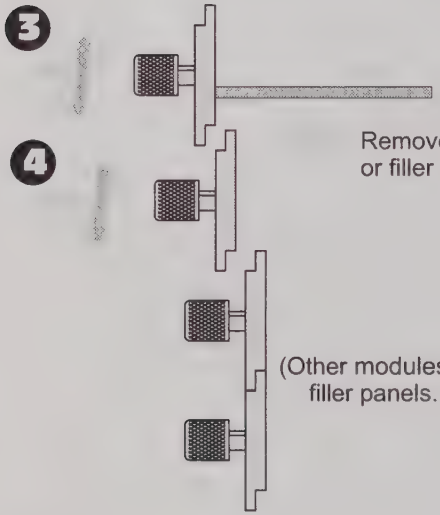
CAUTION Be sure the frame is unplugged before removing or installing modules.

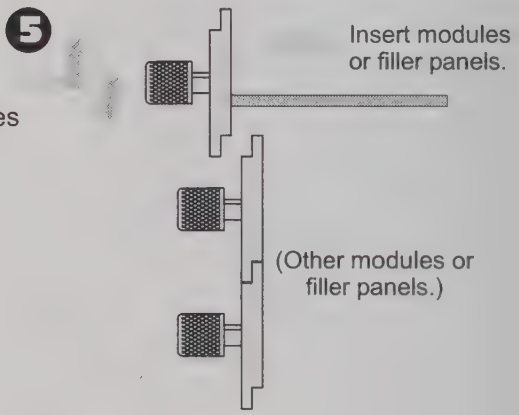


1 Power down the system.



2 Disconnect the power cable.





CAUTION

Use a grounded wrist strap and mat when handling the modules. Gently apply pressure to the center of the module or filler panel while tightening the thumb screws. Use filler panels in empty slots for proper cooling.

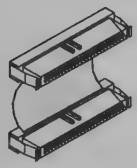
Carefully slide the module into the frame and hand tighten the thumb screws. *If you are inserting more than one module, the tightening order is bottom module to top module.*

A single-module configuration can be installed in any available slot.

Note!

Some modules require calibration if they are moved to a different slot. For calibration information, refer to the online help for the individual modules.

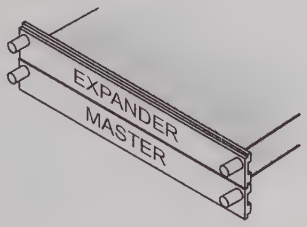
2-Card Module

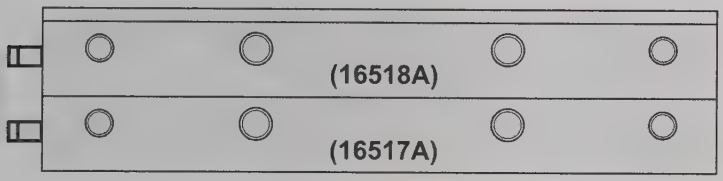


Expander

Master

2 Connector Cable

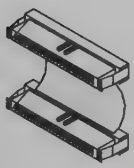




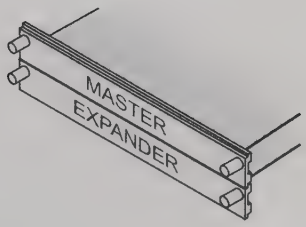
OR

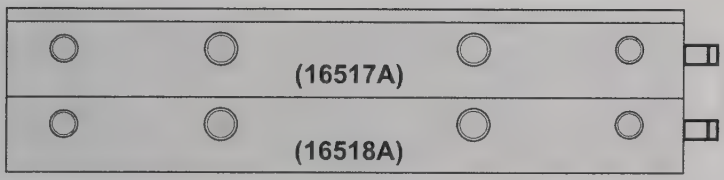
Master

Expander

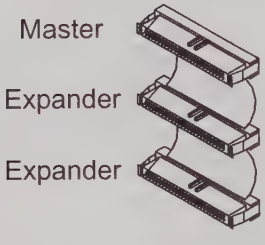


2 Connector Cable

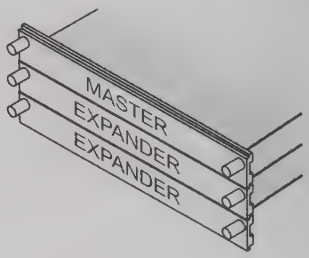


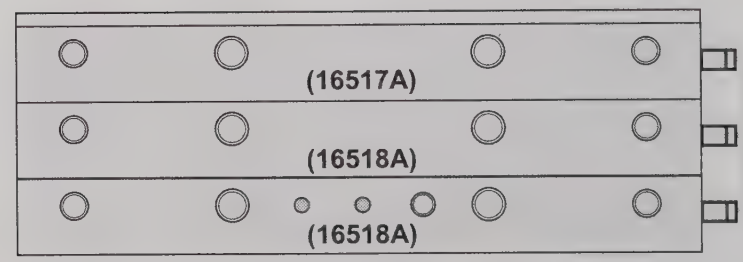


3-Card Module

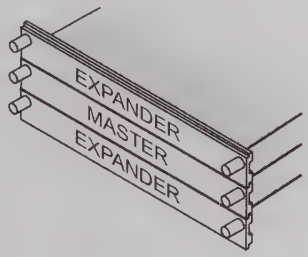


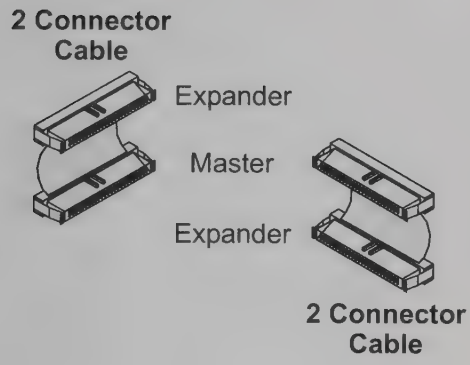
3 Connector Cable

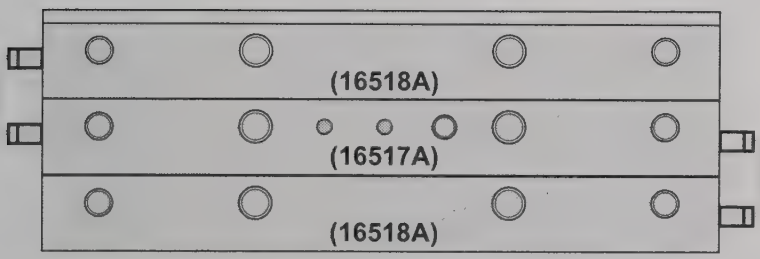




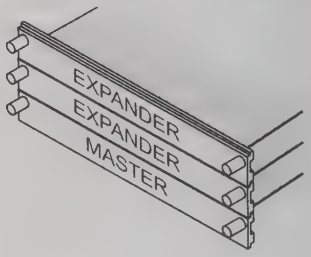
3-Card Module

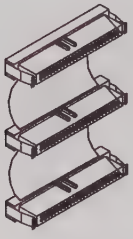




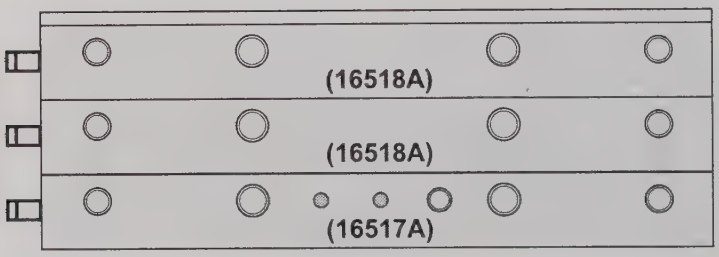


3-Card Module

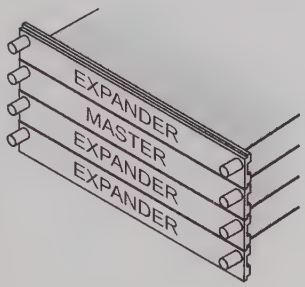


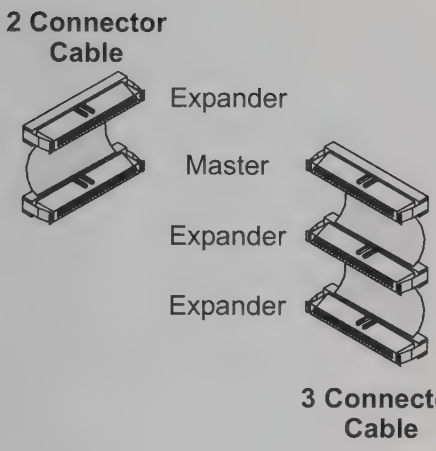


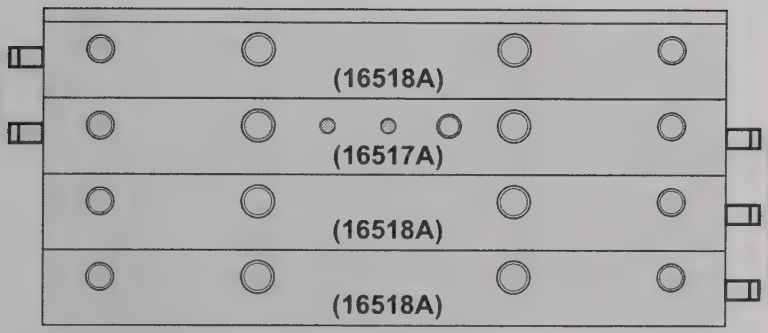
3 Connector Cable



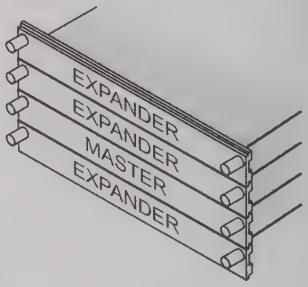
4-Card Module

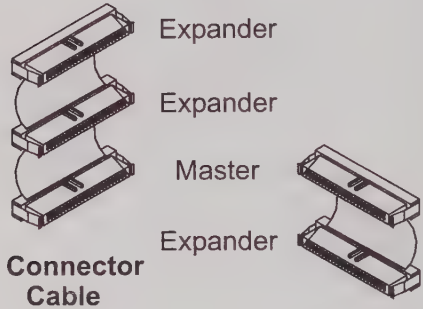


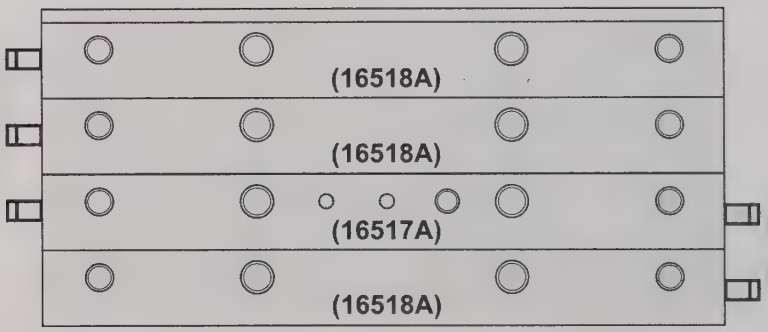




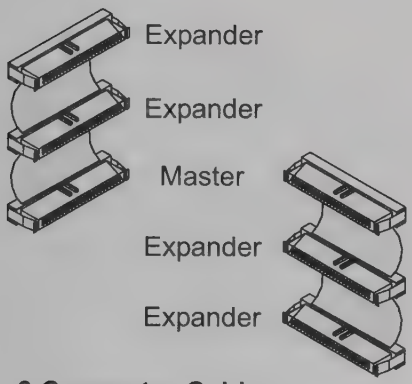
4-Card Module

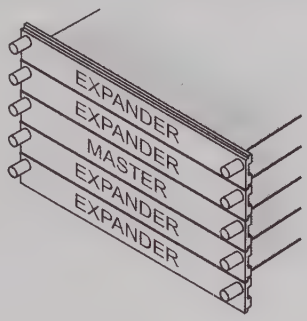




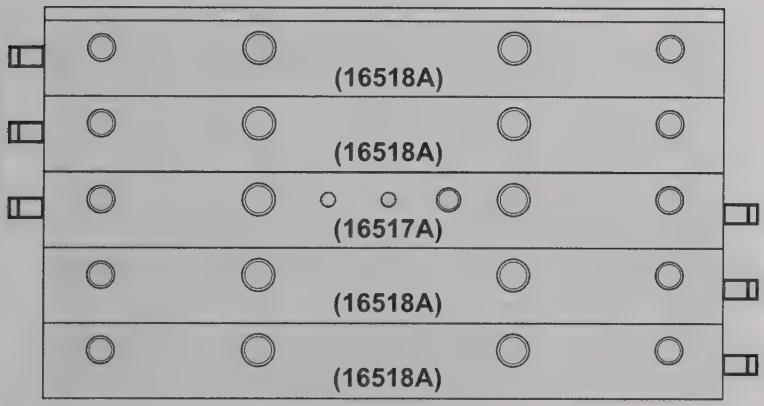


5-Card Module





3 Connector Cables
(Need 2)



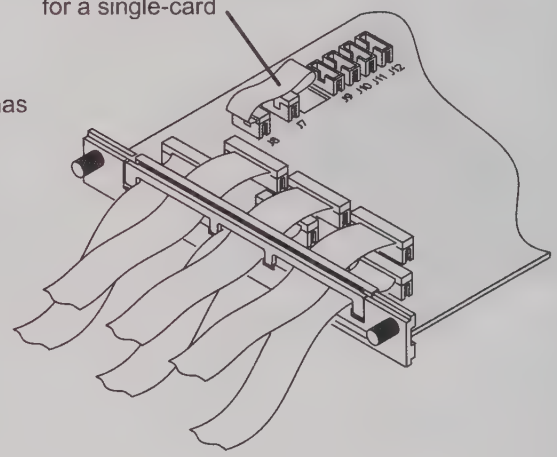
16517/18

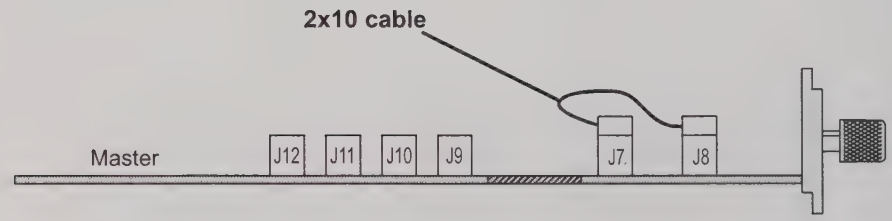
Done

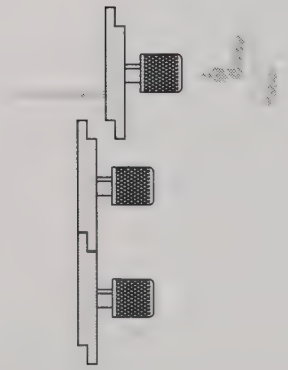
Single-Card Module

2x10 cable connection for a single-card

Each 16522A shipped stand alone has the **2x10 cable** connected in the single-card module configuration.





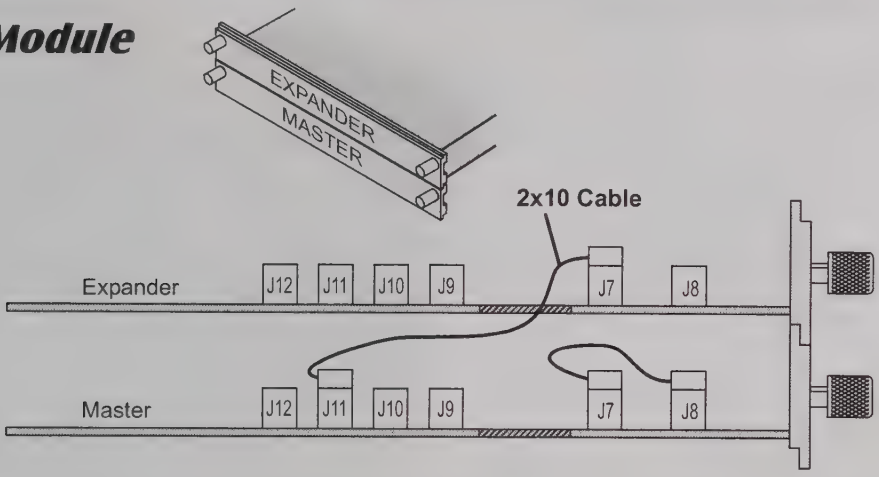


A single-card module configuration can be installed in any available slot.

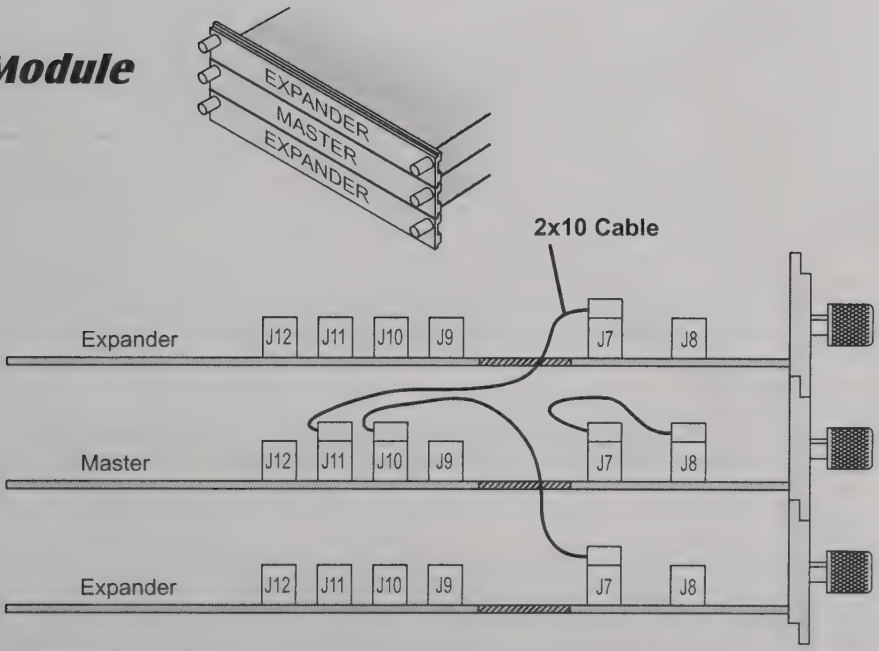
CAUTION Be sure the frame is unplugged before removing or installing modules.

The following pages will show you how to connect the **2x10 cables** to configure two, three, four, and five-card modules.

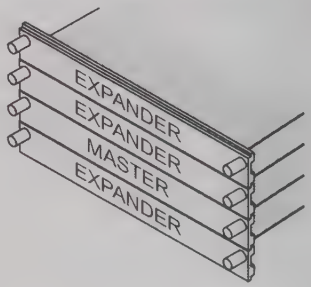
2-Card Module



3-Card Module



4-Card Module



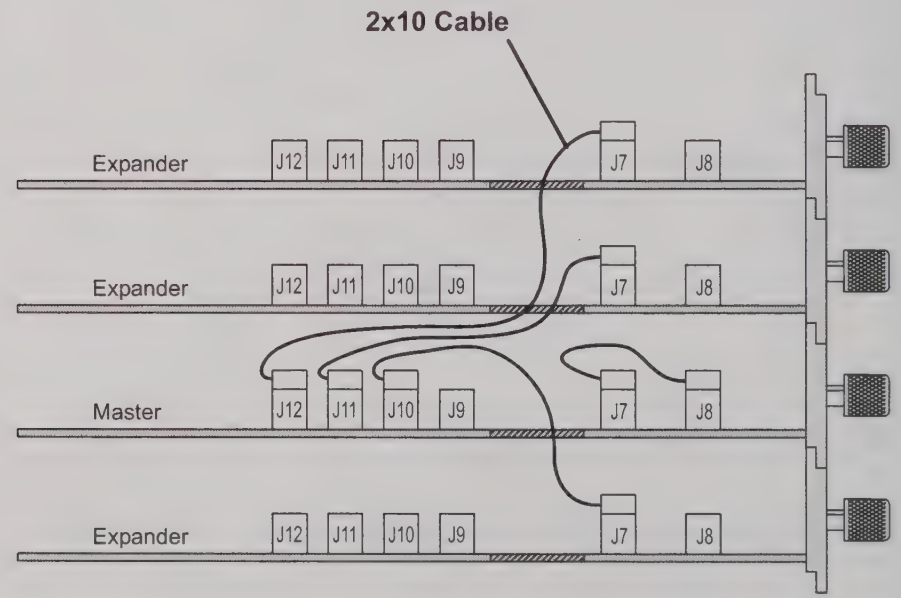
Note!

Carefully slide the four cards half way into the mainframe slots.

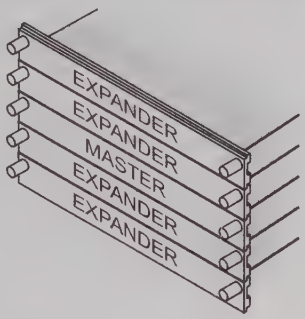
Cable the bottom Expander to the Master Card first.

Cable the upper two Expanders to the Master Card.

Gently slide the cabled assembly fully into the frame and tighten.



5-Card Module



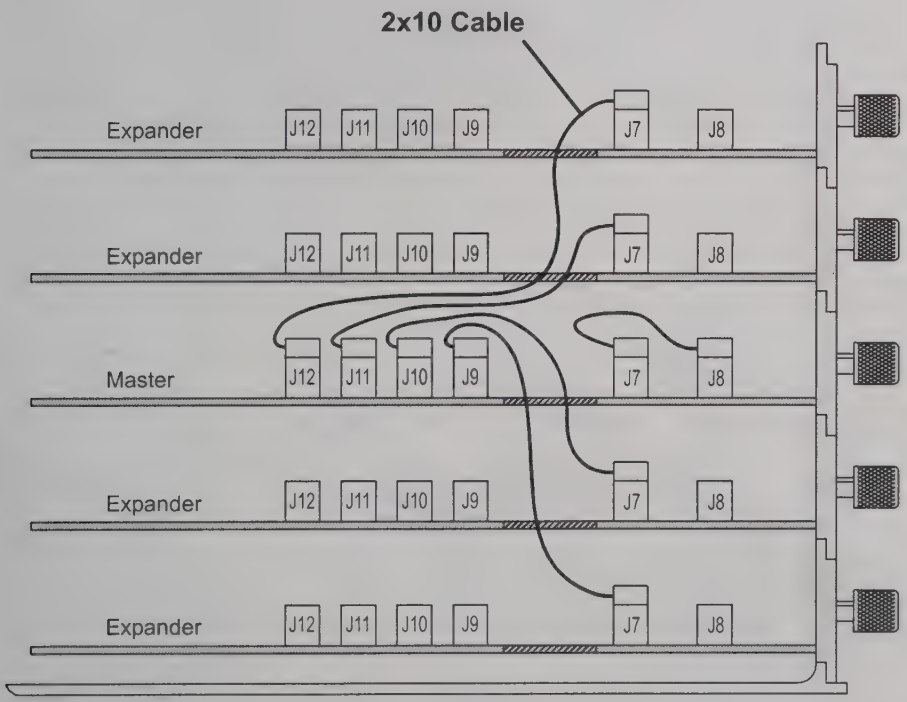
Note!

Carefully slide the five cards half way into the mainframe slots.

Cable the bottom two Expanders to the Master first.

Cable the upper two Expanders to the Master.

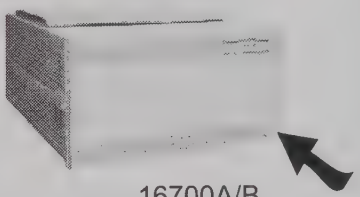
Gently slide the cabled assembly fully into the frame and tighten.



16522A

Done

Single-Card Module

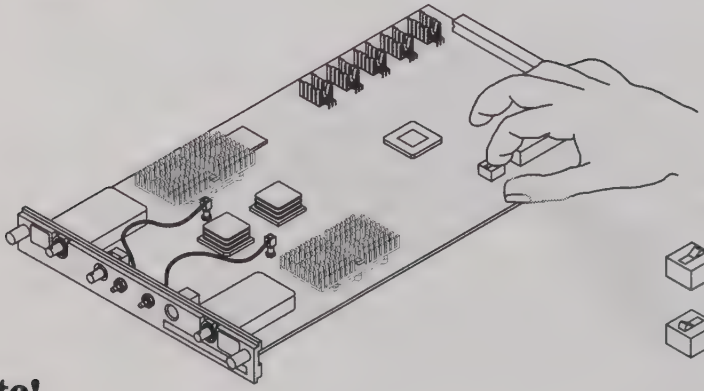


16700A/B

1. Power down the mainframe.

16702A/B

2. Remove the module from the mainframe and set the PROTECTED / UNPROTECTED switch to UNPROTECTED.



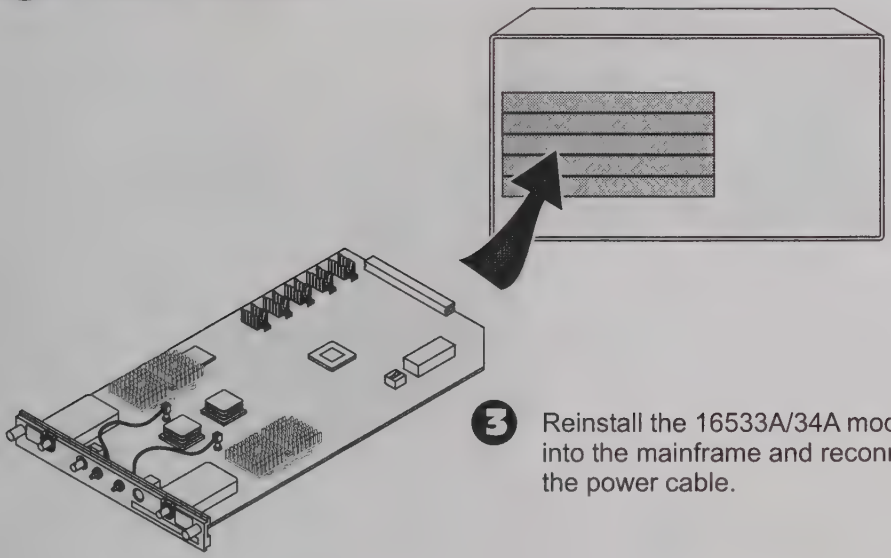
UNPROTECTED

PROTECTED

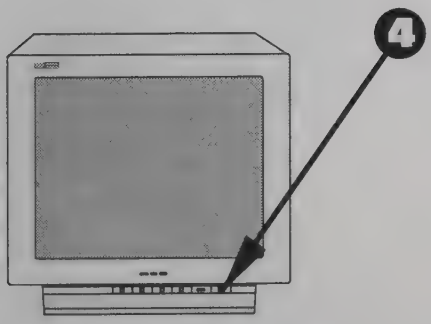
Note!

If you calibrate this module without unprotecting the memory, the new calibration settings will not be saved when the system is shut down. The system will default to the previous settings. The new calibration settings would be effective for the current active session only.

Single-Card Module



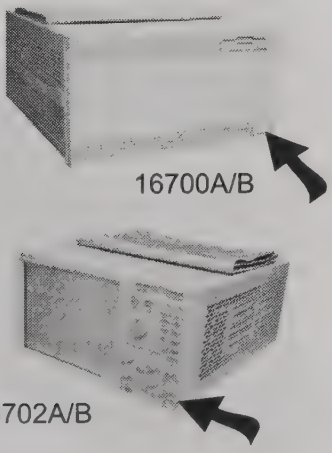
3 Reinstall the 16533A/34A module into the mainframe and reconnect the power cable.



4

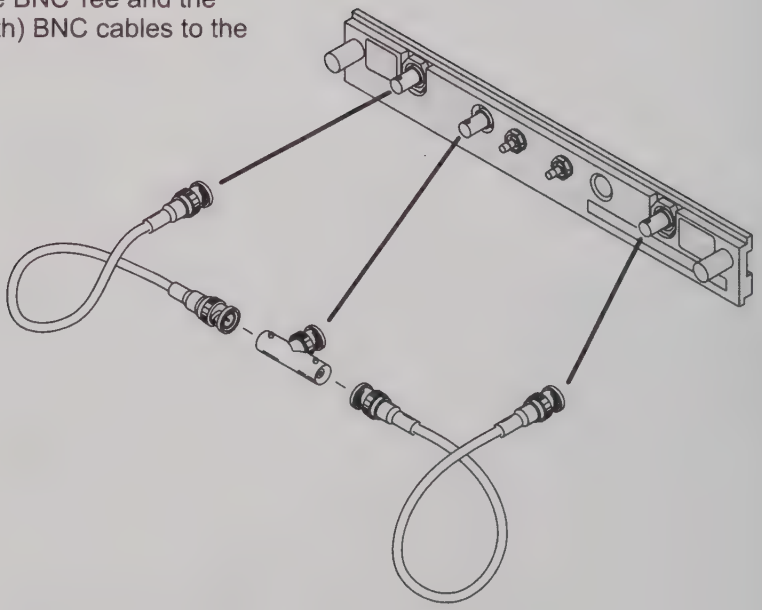
Monitor power ON.
(If applicable)

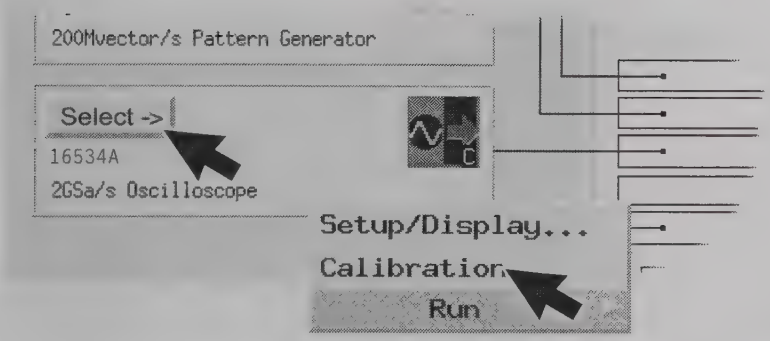
5 System power ON

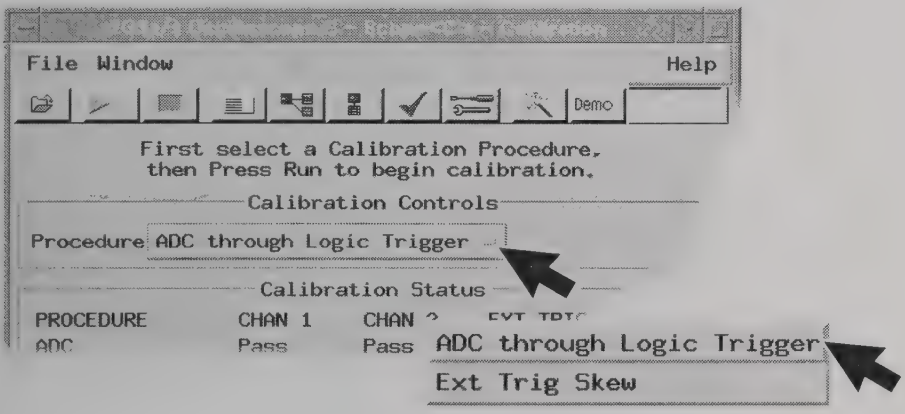


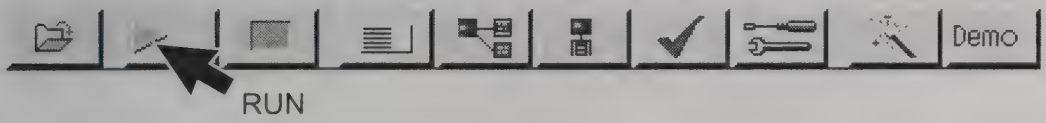
6 For more accurate calibration, allow the system 30 minutes to warm up.

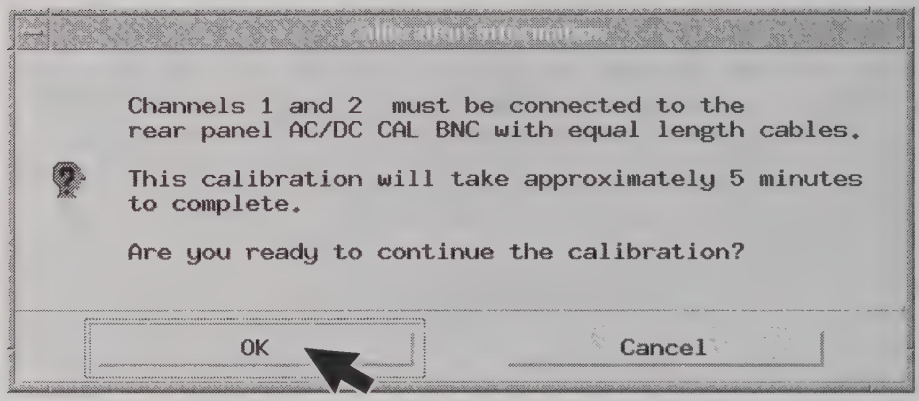
7 Connect the BNC Tee and the (equal length) BNC cables to the module.




200Mvector/s Pattern Generator
Select ->
16534A
2GSa/s Oscilloscope
Setup/Display...
Calibration
Run

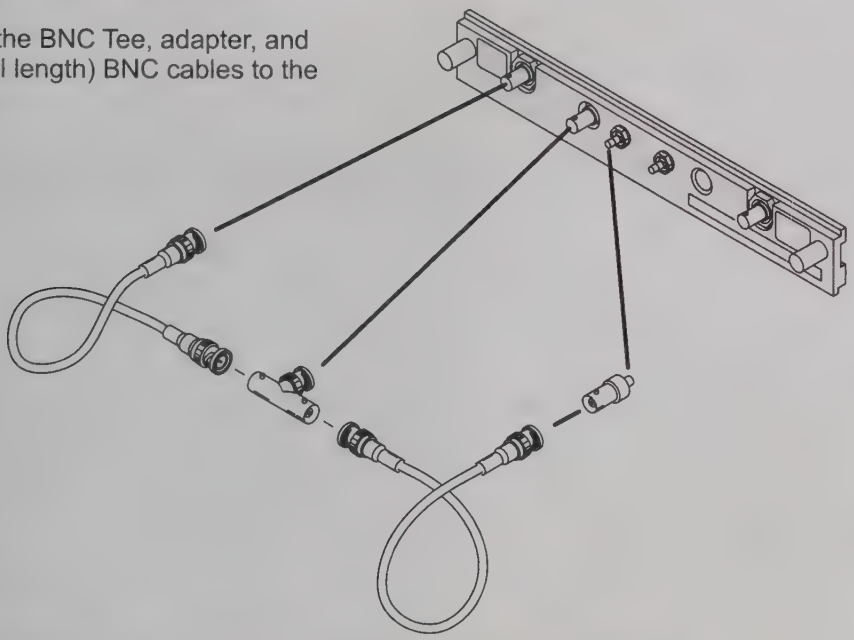

File Window
Help
Demo
First select a Calibration Procedure,
then Press Run to begin calibration.
Calibration Controls
Procedure ADC through Logic Trigger
Calibration Status
PROCEDURE CHAN 1 CHAN 2
ADC Pass Pass
ADC through Logic Trigger
Ext Trig Skew

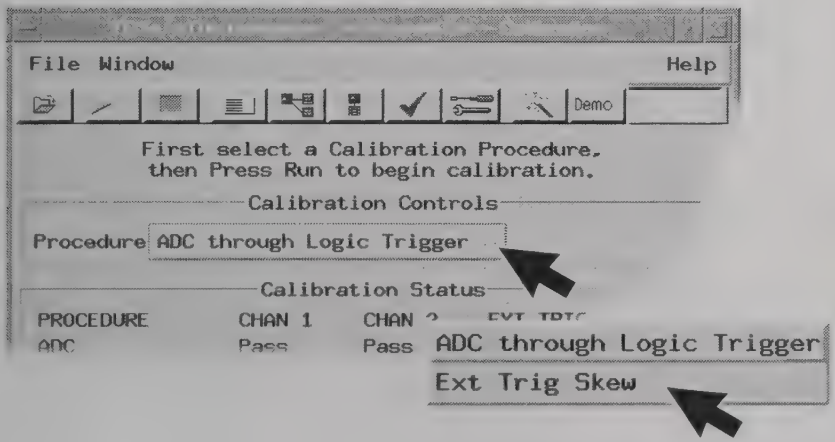

Demo
RUN


Channels 1 and 2 must be connected to the
rear panel AC/DC CAL BNC with equal length cables.
This calibration will take approximately 5 minutes
to complete.
Are you ready to continue the calibration?
OK
Cancel

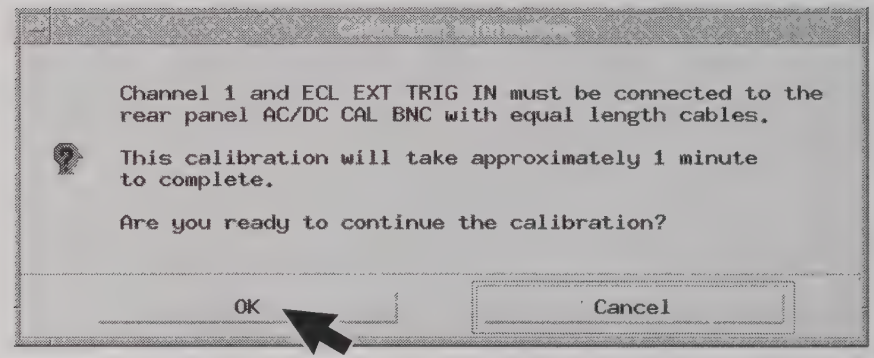
Single-Card Module

Connect the BNC Tee, adapter, and the (equal length) BNC cables to the module.





RUN


Channel 1 and ECL EXT TRIG IN must be connected to the rear panel AC/DC CAL BNC with equal length cables.
This calibration will take approximately 1 minute to complete.
Are you ready to continue the calibration?
OK
Cancel

Note!

Remember to set the PROTECTED/UNPROTECTED switch back to PROTECTED.

If you just calibrated this card as one of a multi-card set, you must leave the PROTECTED/UNPROTECTED switch in the UNPROTECTED position until you have completed the multi-card calibration procedure on the following pages.

Single Module Calibration

Done

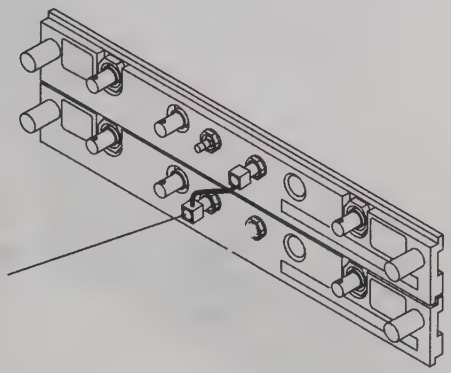
Multi-Card Module

Note!

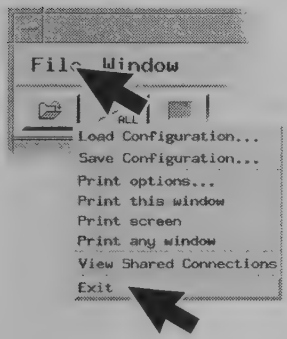
Each of the individual boards of a multi-card module must first be calibrated as a single. (See previous pages: *16533/34A Single-Card Module*.)

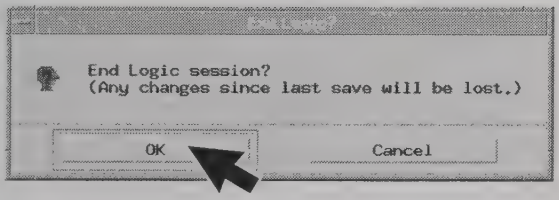
The following example is of a two board arrangement. Up to four cards may be configured on a single time base and trigger in a 16700A, 16700B, 16702A, or 16702B mainframe.

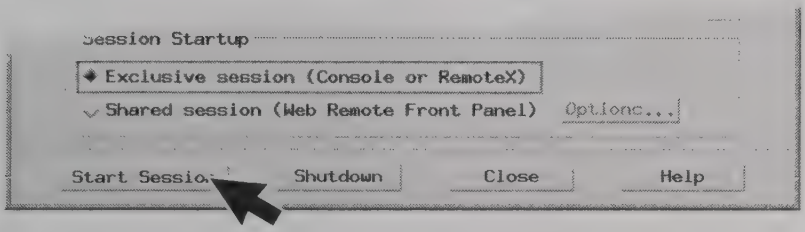
Master
Expander 1

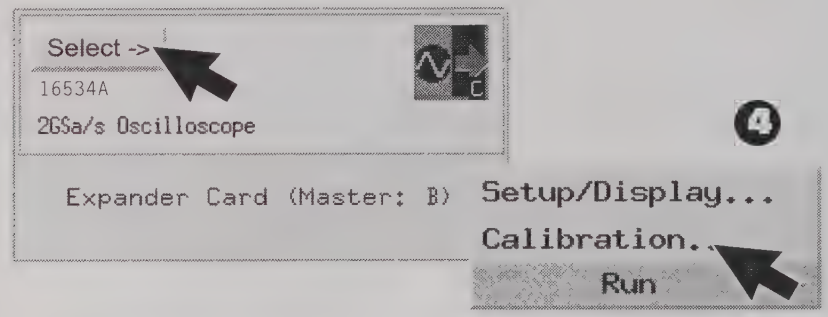


1. Connect the module cables.
2. Exit the current session and restart.



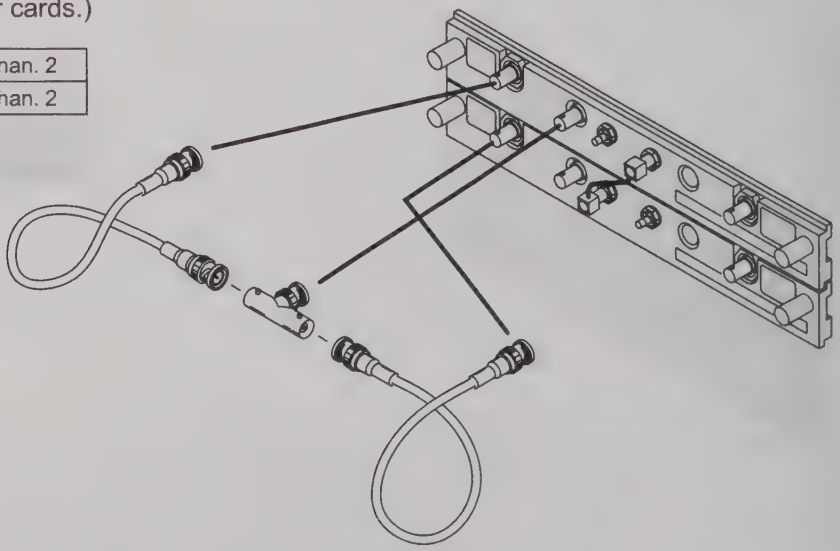




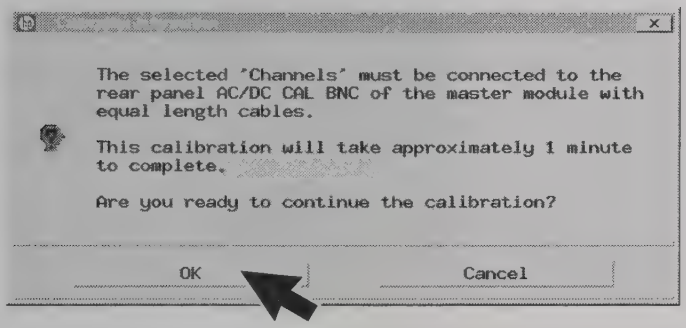


5 Connect the (equal length) BNC calibration between channel 1, AC/DC cal, and channel 1 of the second card. (Channel 1 of the third card next time etc. up to four cards.)

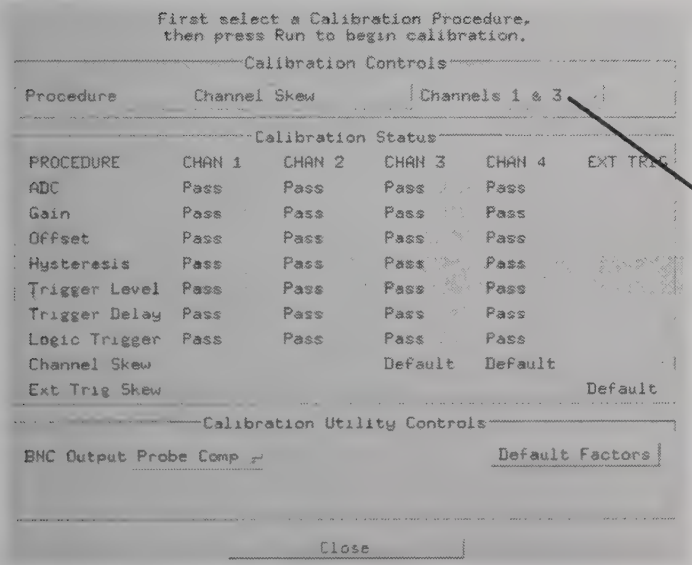
Chan. 1	Chan. 2
Chan. 1	Chan. 2



6 RUN


The selected "Channels" must be connected to the rear panel AC/DC CAL BNC of the master module with equal length cables.
This calibration will take approximately 1 minute to complete.
Are you ready to continue the calibration?
OK
Cancel

7


First select a Calibration Procedure, then press Run to begin calibration.
Calibration Controls
Procedure
Channel Skew
Channels 1 & 3
Calibration Status
PROCEDURE CHAN 1 CHAN 2 CHAN 3 CHAN 4 EXT TRIG
ADC Pass Pass Pass Pass
Gain Pass Pass Pass Pass
Offset Pass Pass Pass Pass
Hysteresis Pass Pass Pass Pass
Trigger Level Pass Pass Pass Pass
Trigger Delay Pass Pass Pass Pass
Logic Trigger Pass Pass Pass Pass
Channel Skew Default Default
Ext Trig Skew Default
Calibration Utility Controls
BNC Output Probe Comp
Default Factors
Close

Note!

Repeat steps 3 through 7 for each additional card in your multi-card module.

Select the appropriate combination for each additional card.

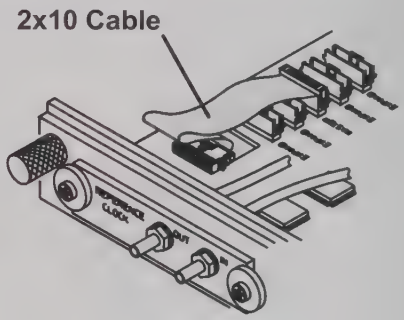
Remember to set the PROTECTED/UNPROTECTED switch back to PROTECTED.

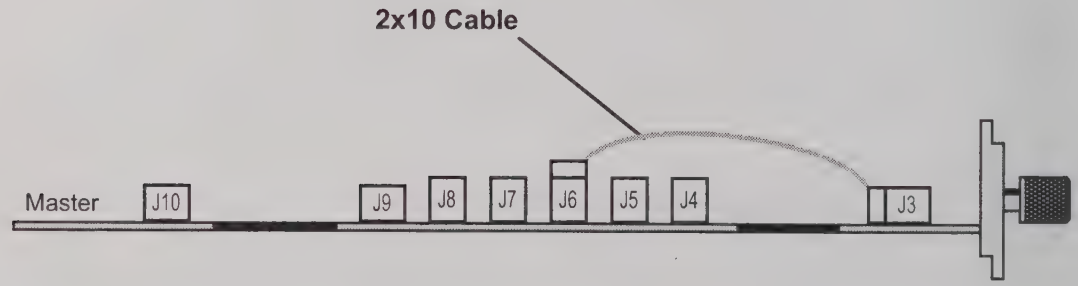
Multi-Module Calibration

Done

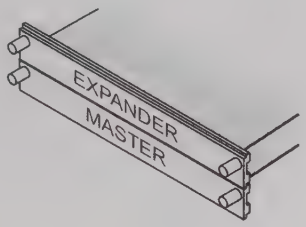
Single-Card Module

When ordered as a single card, the 16557D is shipped with the **2x10 cable** factory configured as a single card module.



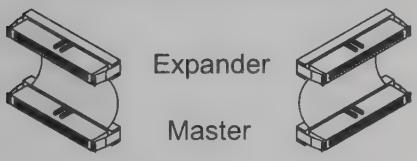


2-Card Module



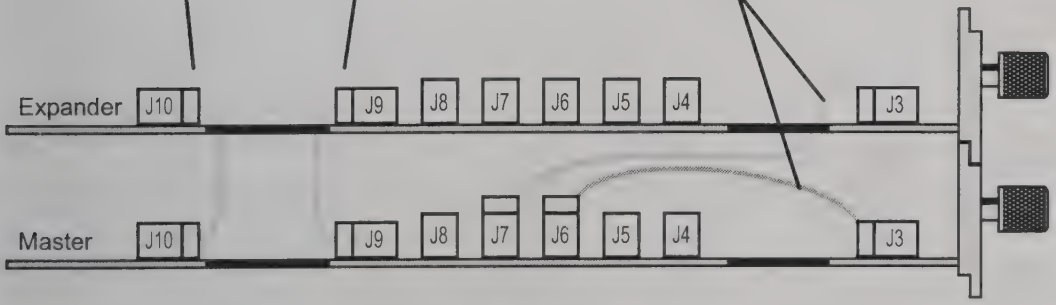
Find the required two connector **2x25 cables** and connect the cables as shown.

2x25 Cables (Need 2)

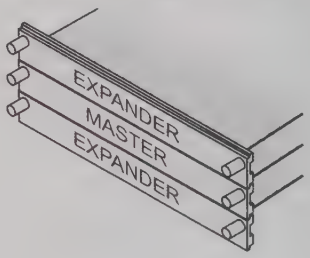


Connect the **2x10 cables** on the Expander to the Master.

2x10 Cables

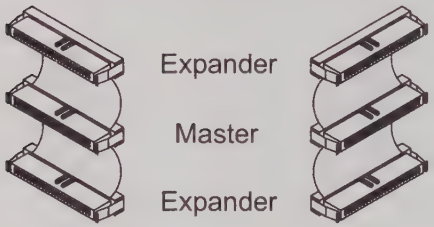


3-Card Module

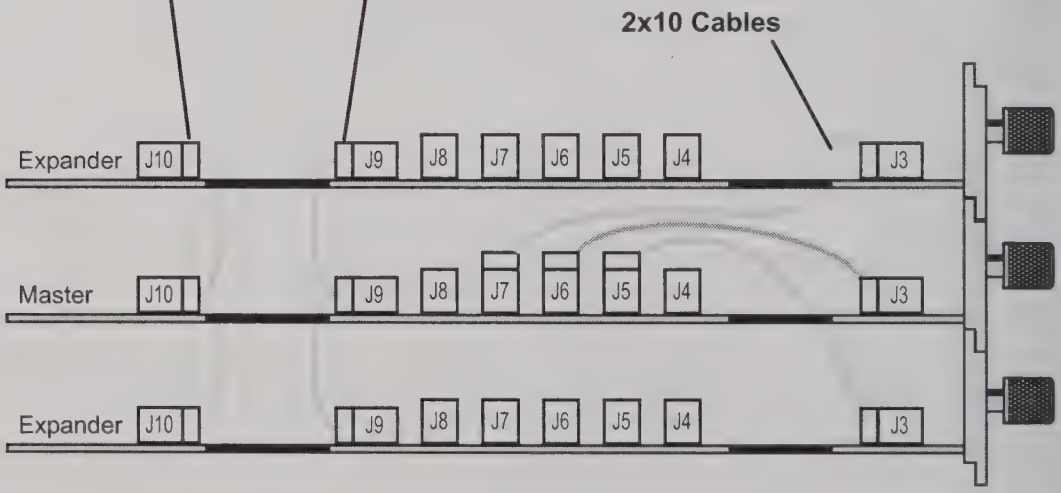


Find the required three connector **2x25 cables** and connect the cables as shown.

2x25 Cables (Need 2)

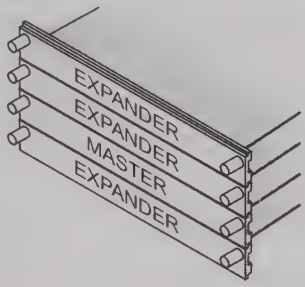


Connect the **2x10 cables** on the Expanders to the Master.

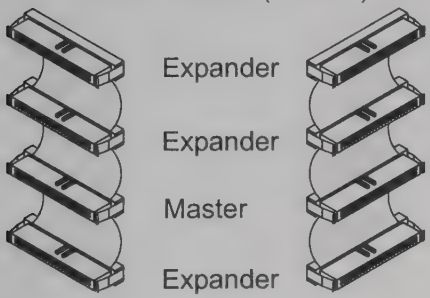


4-Card Module

Find the required four connector **2x25 cables** and connect the cables as shown.

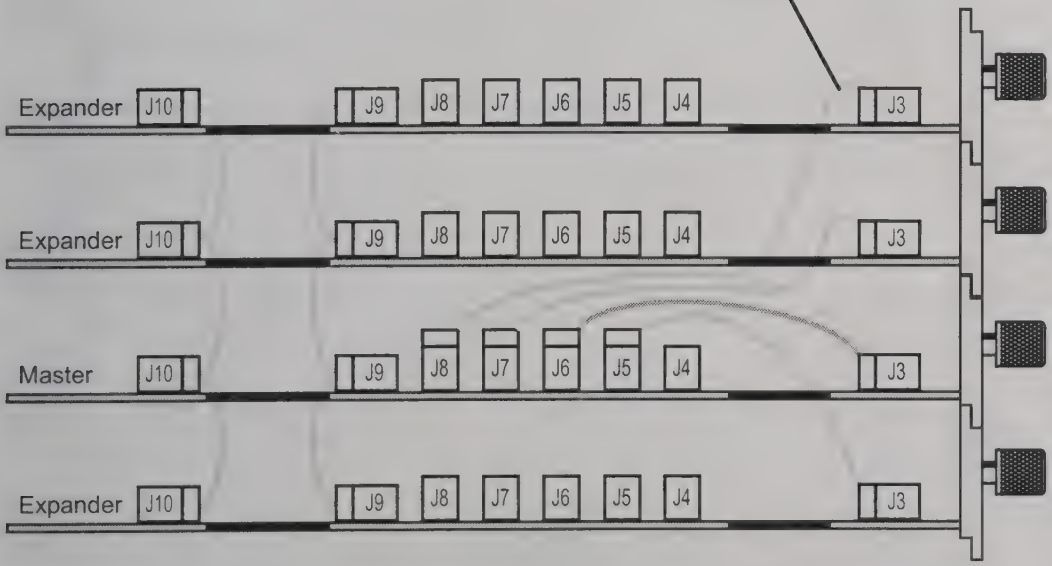


2x25 Cables (Need 2)



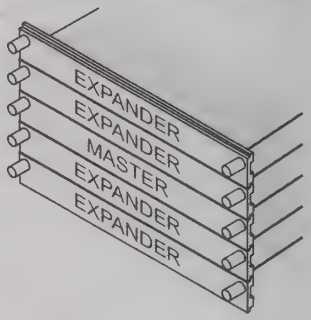
Connect the **2x10 cables** on the Expanders to the Master.

2x10 Cables

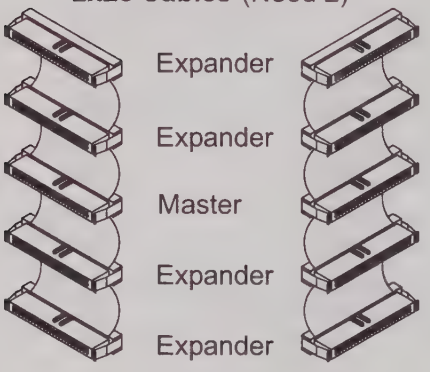


5-Card Module

Find the required five connector **2x25 cables** and connect the cables as shown.

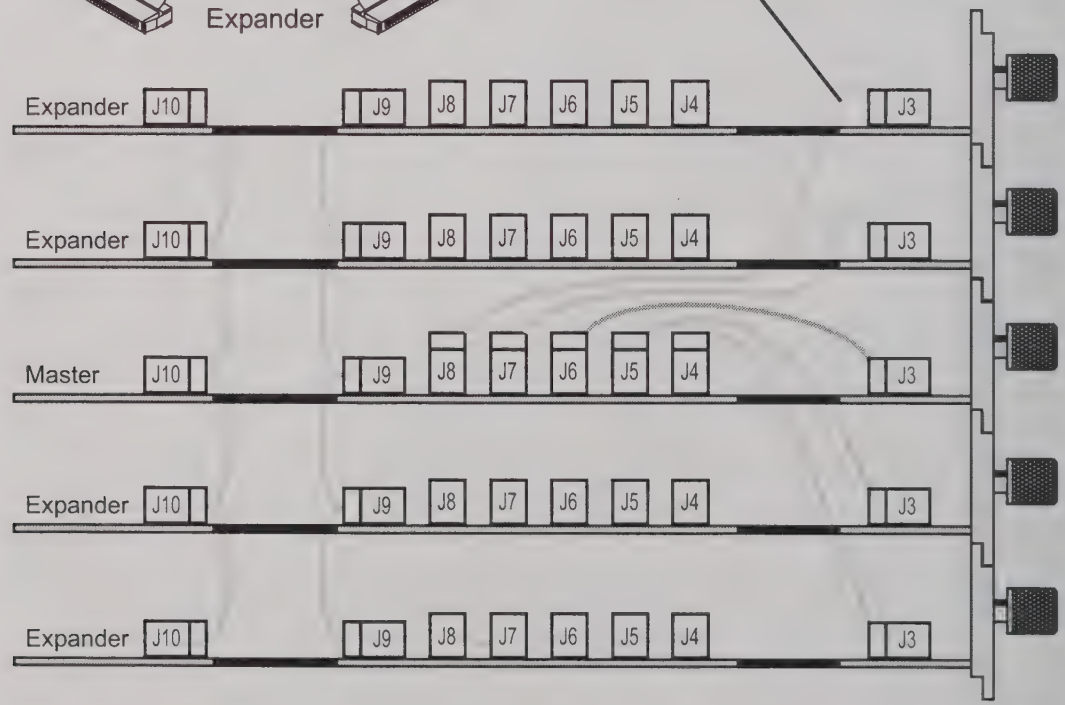


2x25 Cables (Need 2)



Connect the **2x10 cables** on the Expanders to the Master.

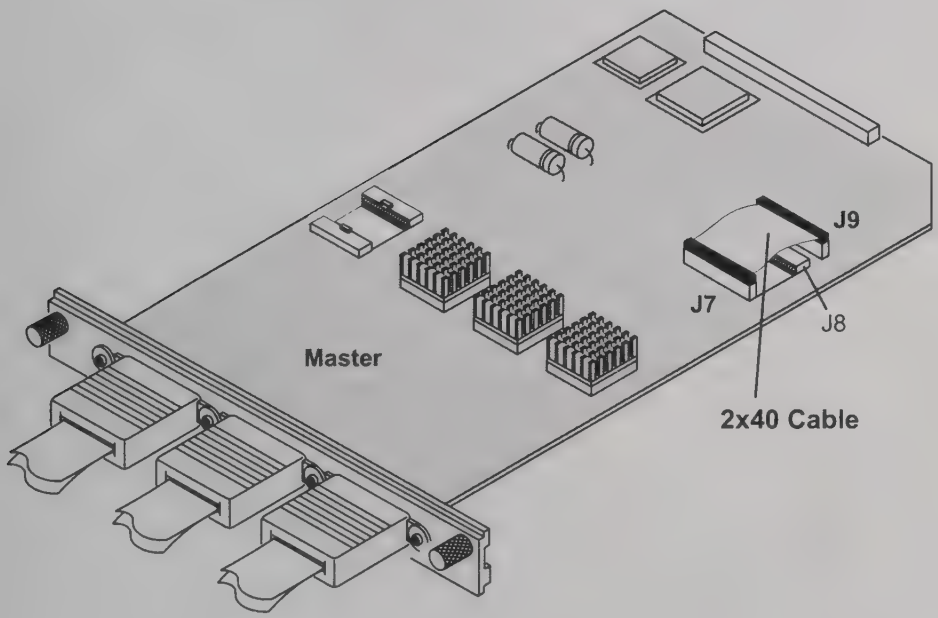
2x10 Cables



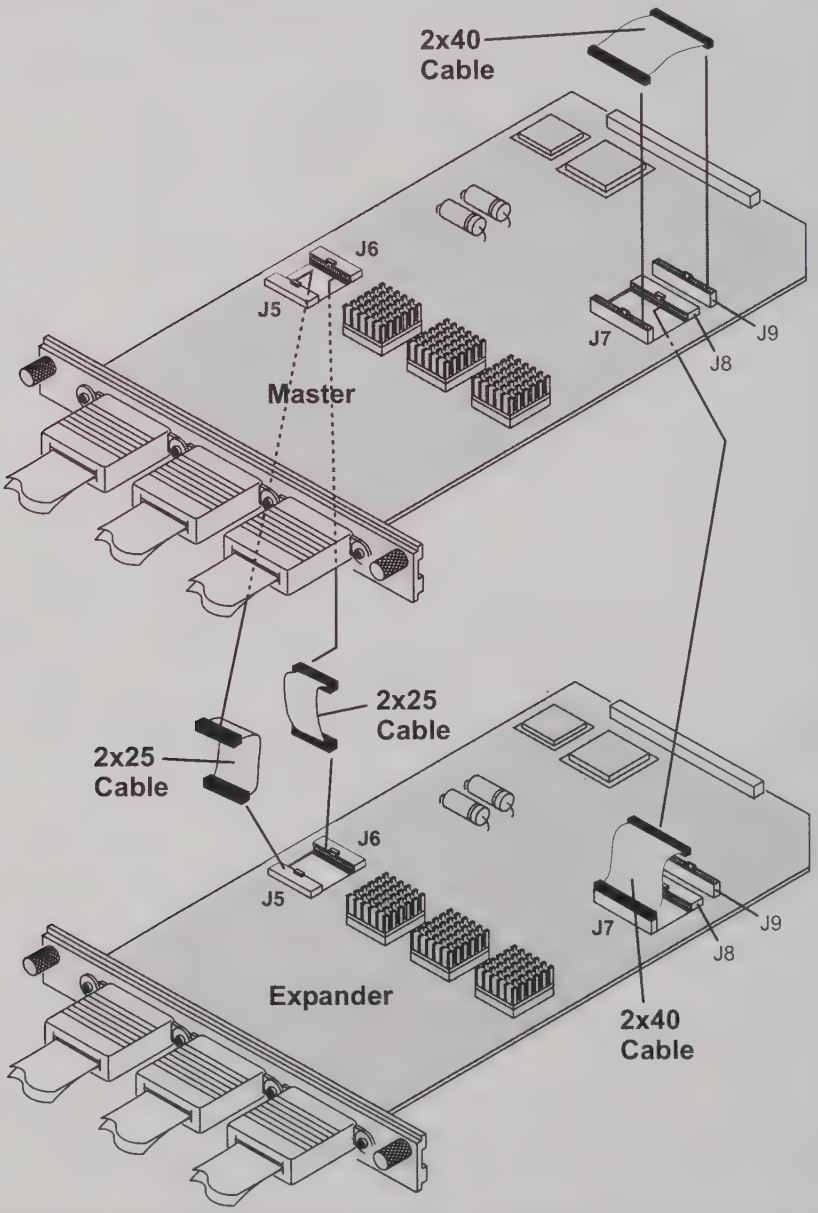
Note!

The 16700A, 16700B, 16702A and 16702B require Rev. A.01.20.00 or higher. See the Software Installation chapter in the book. Select 1660X-70XA.

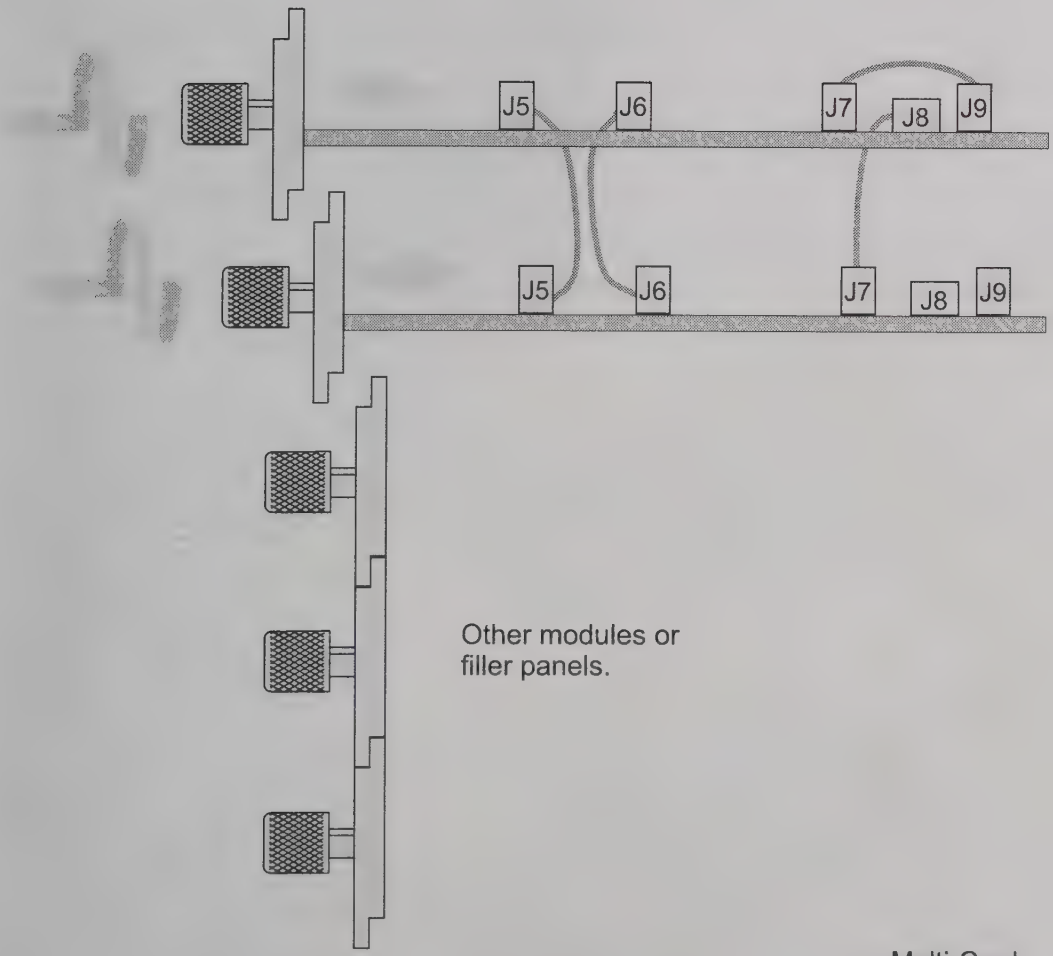
A single 16710A, 16711A, and 16712A will have the **2x40** cable connected in the single-card configuration.



Multi-Card Module



Multi-Card Module



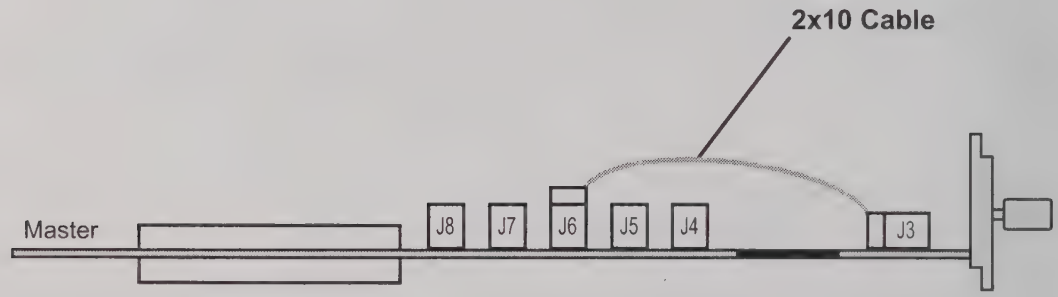
Multi-Card
Module

Done

Single-Card Module

Note!

A single 16715/ 16/ 17/ 18/ 19A, 16740/41/42A, or 16750/ 51/ 52A will have the **2x40** cable connected in the single-card configuration.



Note!

The 16715/ 16/ 17A's require software Rev. A.01.40.00 or higher.

The 16718/ 19A's require software Rev. A.01.50.00 or higher.

The 16740/41/42A's require software Rev. A.02.50.00 or higher.

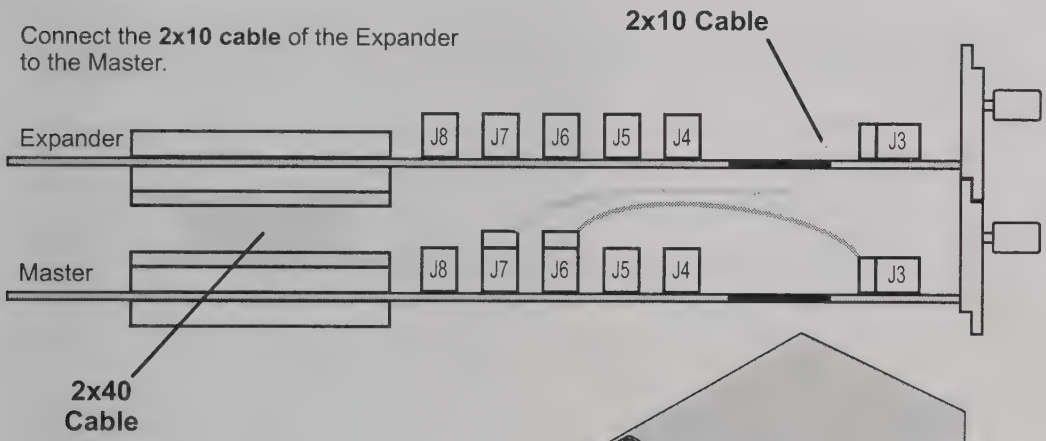
The 16750/ 51/ 52A require software Rev. A.02.00.00 or higher.

The 16760's require software Rev. A.02.20.00 or higher.

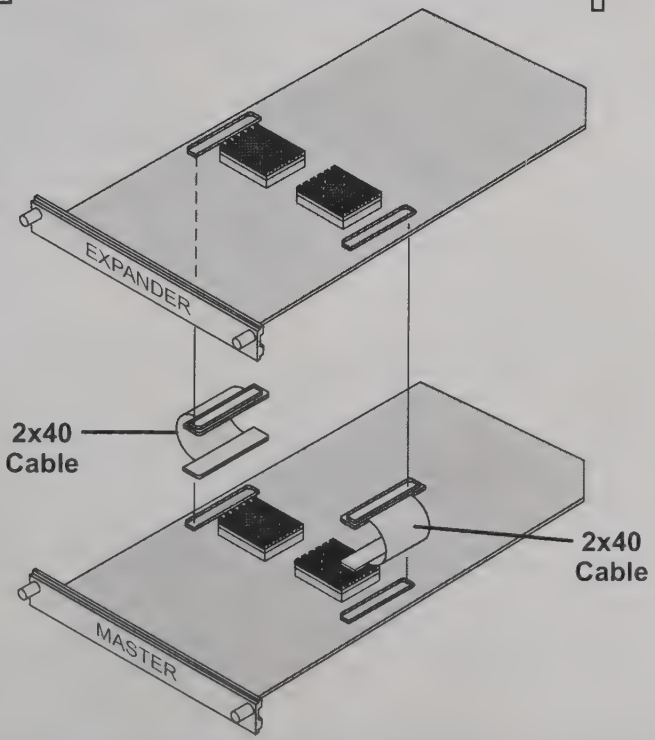
See the Software Installation chapter in this book.

2-Card Module

Connect the **2x10 cable** of the Expander to the Master.



Open the accessory pouch and find two of the required **2x40 cables**. Connect the **2x40 cables** on the modules as shown.

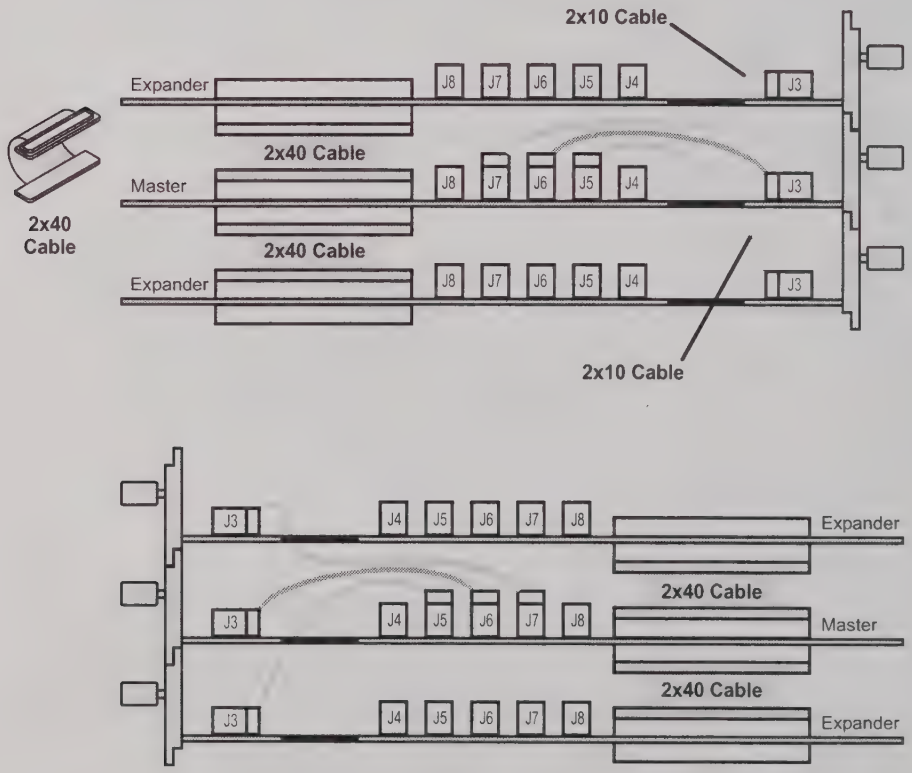


Note!

In a multicard module, the 16750A works with the 16750B; the 16751A works with the 16751B; the 16752A works with the 16752B.

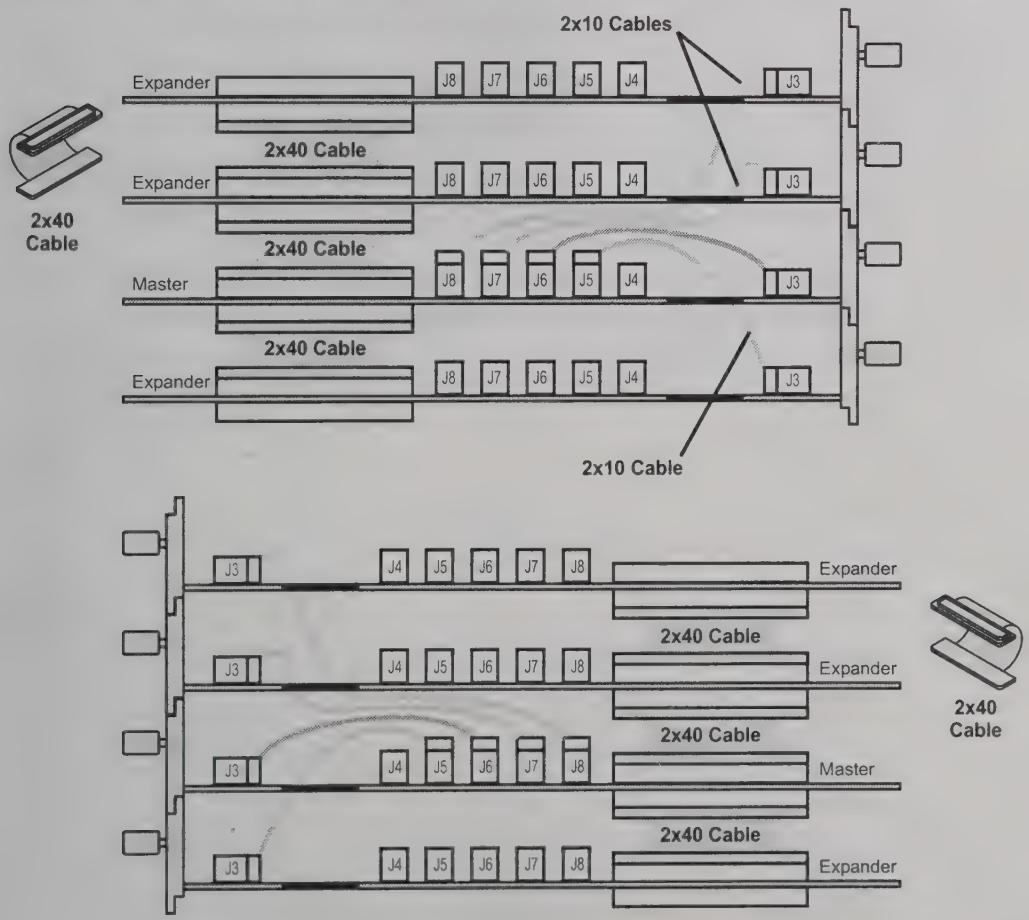
3-Card Module

Connect the **2x10 cables** of the Expanders to the Master. Find the **2x40 cables** in the accessory pouch and connect them between the modules.



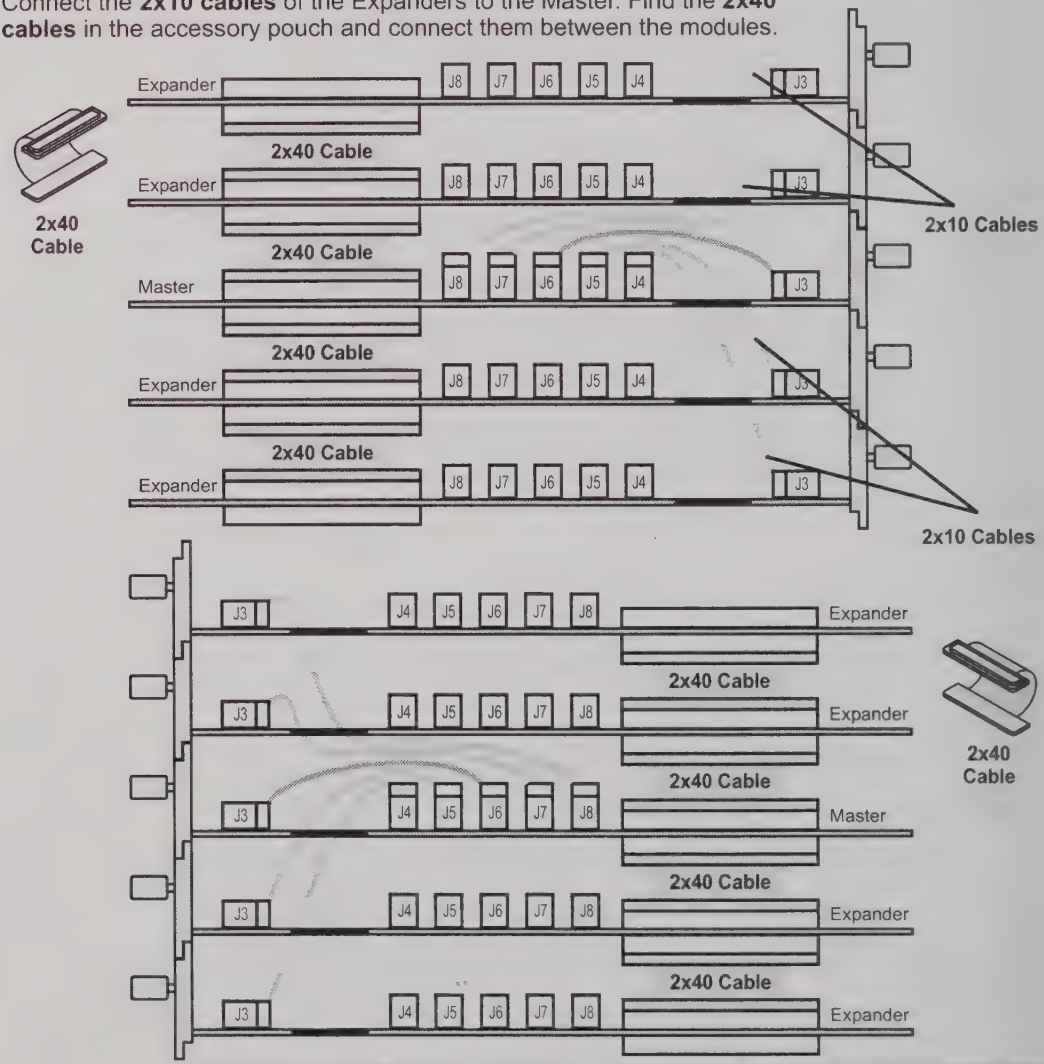
4-Card Module

Connect the **2x10 cables** of the Expanders to the Master. Find the **2x40 cables** in the accessory pouch and connect them between the modules.



5-Card Module

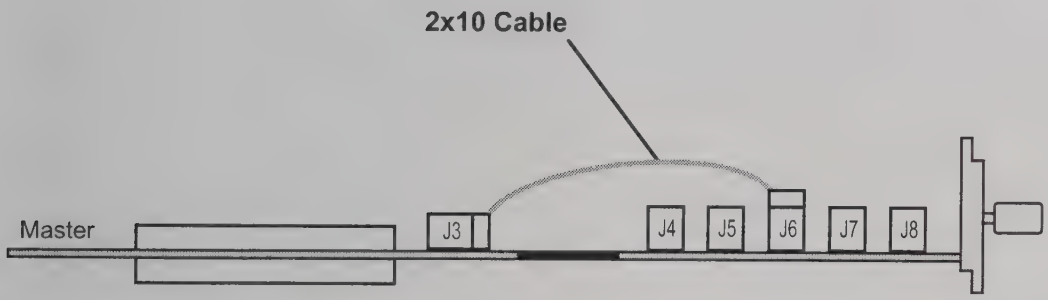
Connect the **2x10 cables** of the Expanders to the Master. Find the **2x40 cables** in the accessory pouch and connect them between the modules.



Single-Card Module

Note!

A single 16760A will have the **2x40** cable connected in the single-card configuration.



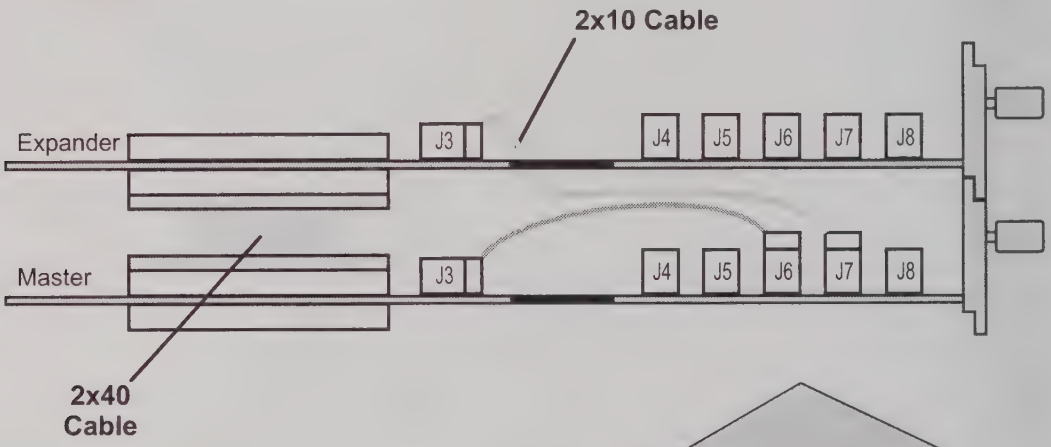
Note!

The 16760's require software Rev. A.02.20.00 or higher.

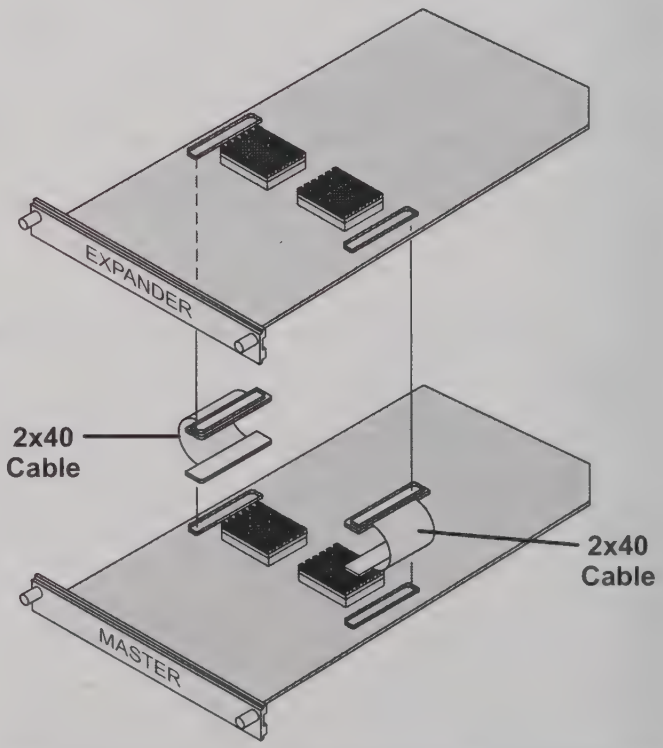
See the Software Installation chapter in this book.

2-Card Module

Connect the **2x10 cable** of the Expander to the Master.

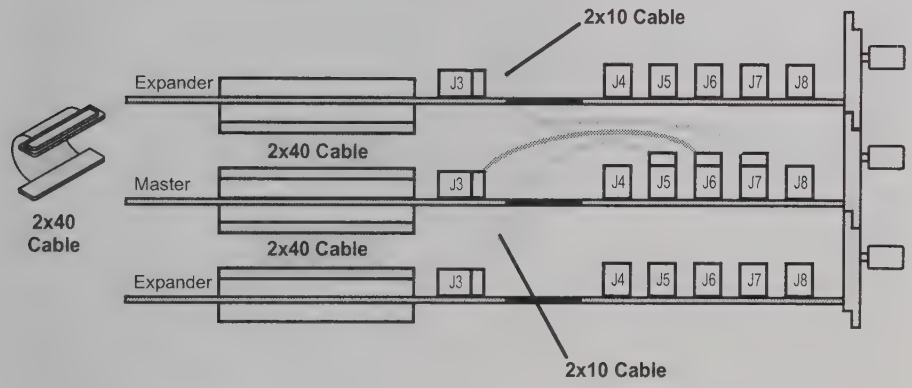


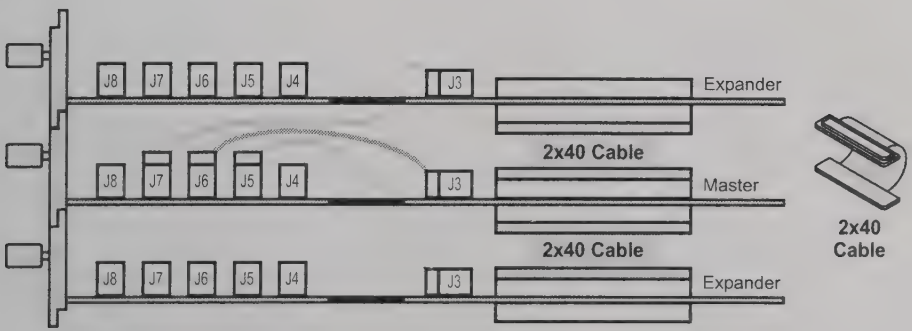
Open the accessory pouch and find two of the required **2x40 cables**. Connect the **2x40 cables** on the modules as shown.



3-Card Module

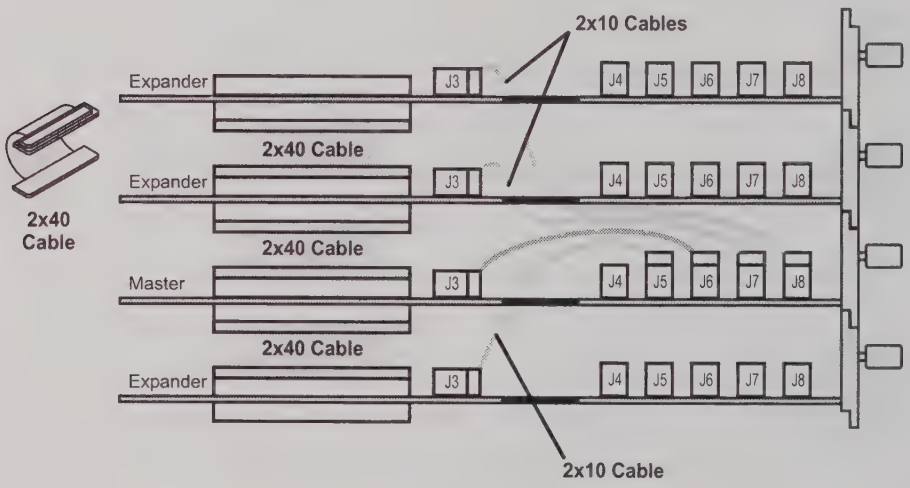
Connect the **2x10 cables** of the Expanders to the Master. Find the **2x40 cables** in the accessory pouch and connect them between the modules.

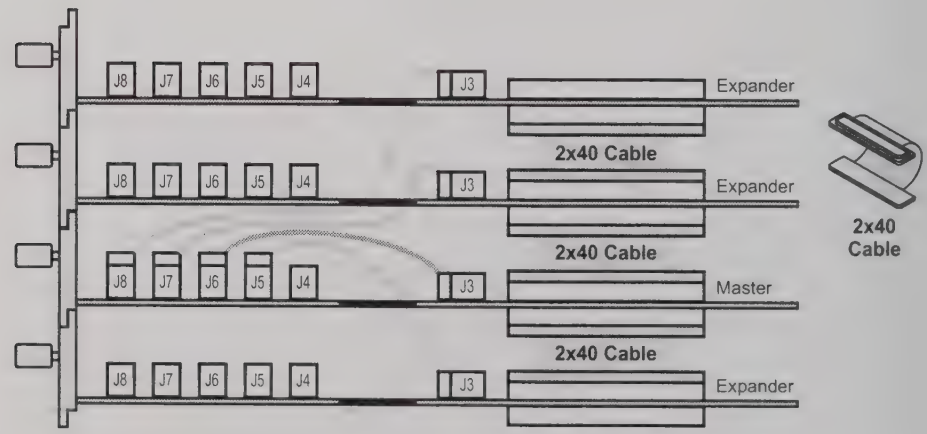




4-Card Module

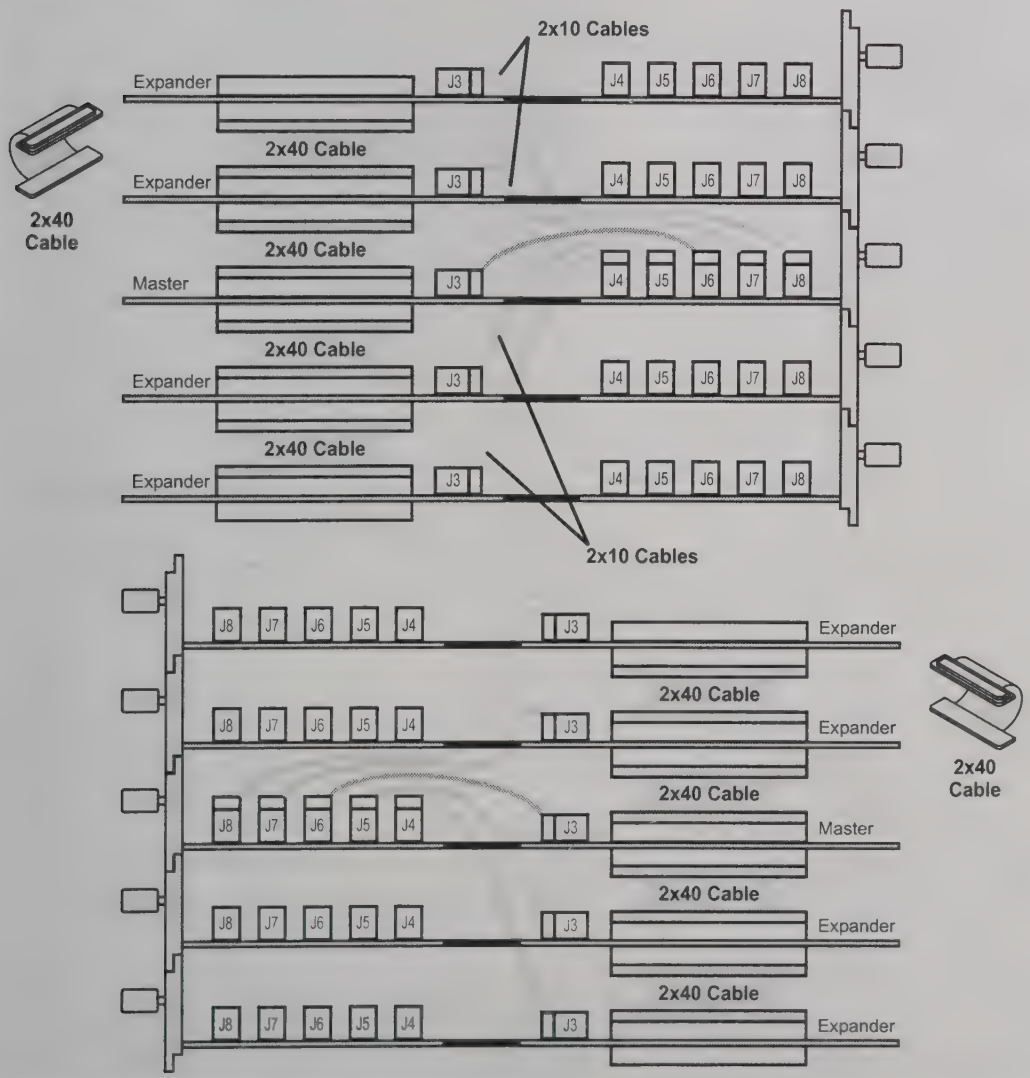
Connect the **2x10 cables** of the Expanders to the Master. Find the **2x40 cables** in the accessory pouch and connect them between the modules.





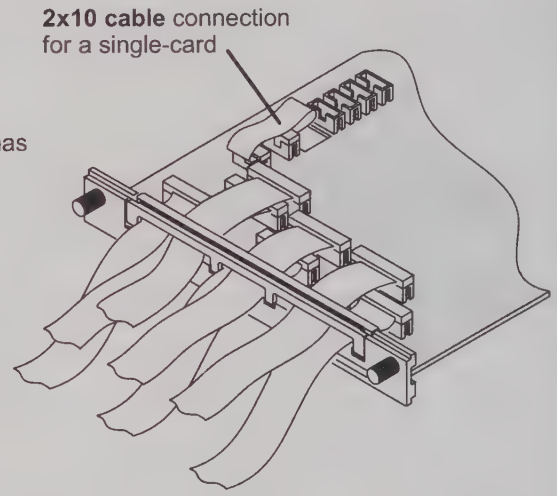
5-Card Module

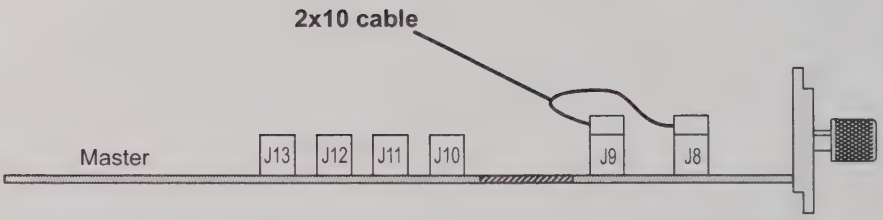
Connect the **2x10 cables** of the Expanders to the Master. Find the **2x40 cables** in the accessory pouch and connect them between the modules.

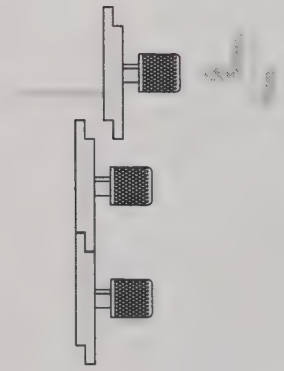


Single-Card Module

Each 16720A shipped stand alone has the **2x10 cable** connected in the single-card module configuration.







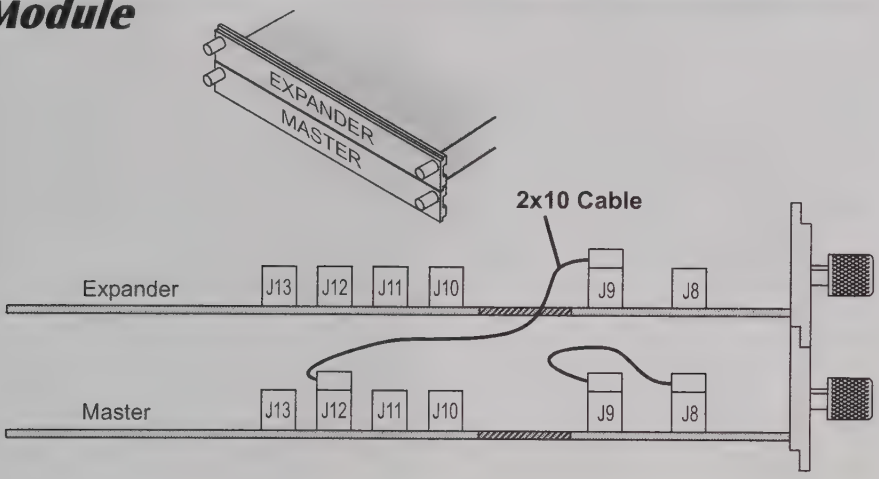
A single-card module configuration can be installed in any available slot.

CAUTION Be sure the frame is unplugged before removing or installing modules.

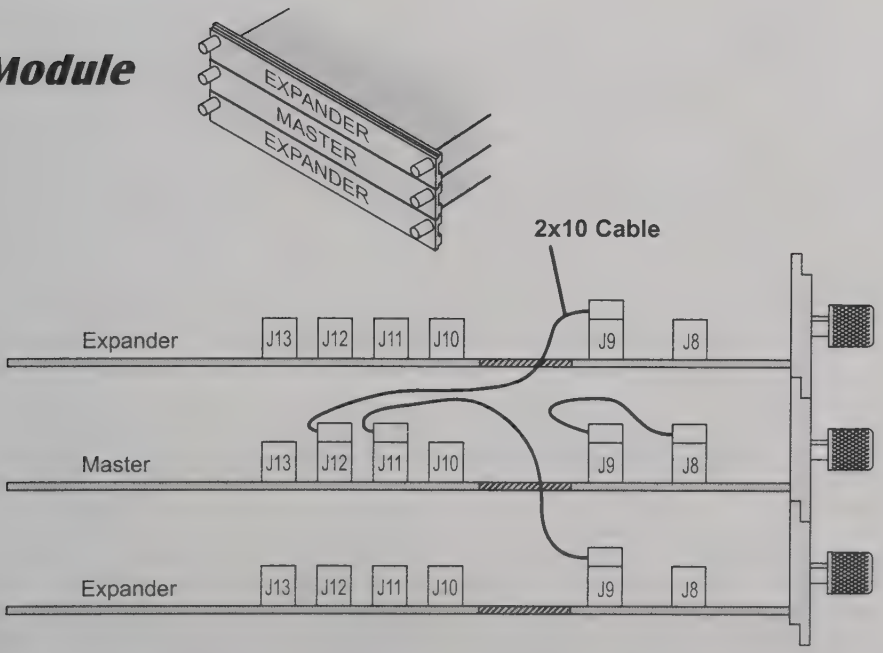
The 16720A requires software Rev. A.02.00.00 or higher.

The following pages will show you how to connect the **2x10 cables** to configure two, three, four, and five-card modules.

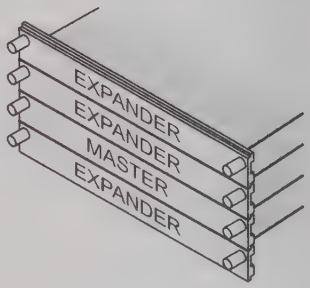
2-Card Module



3-Card Module



4-Card Module



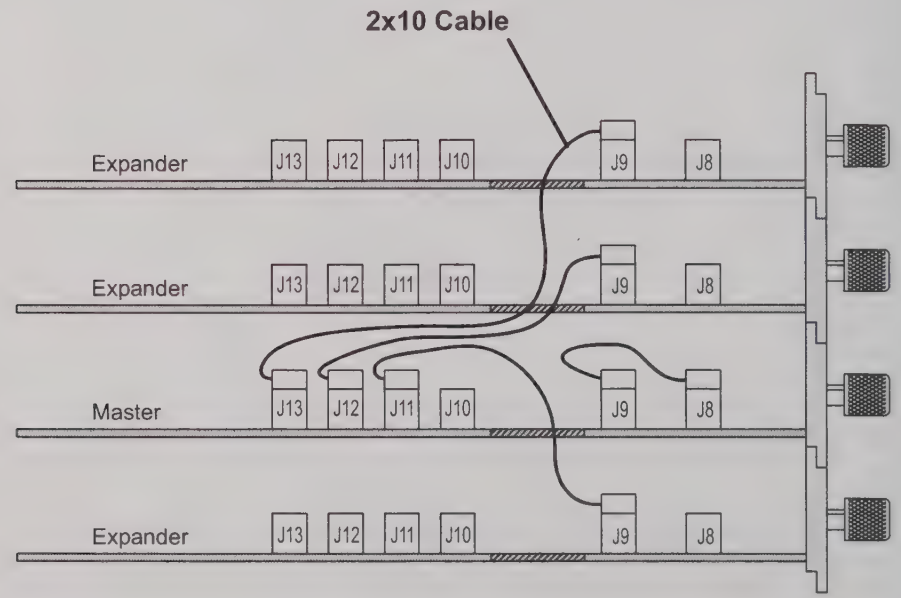
Note!

Carefully slide the four cards half way into the mainframe slots.

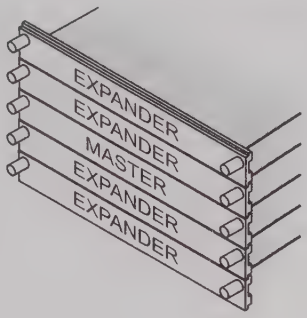
Cable the bottom Expander to the Master Card first.

Cable the upper two Expanders to the Master Card.

Gently slide the cabled assembly fully into the frame and tighten.



5-Card Module



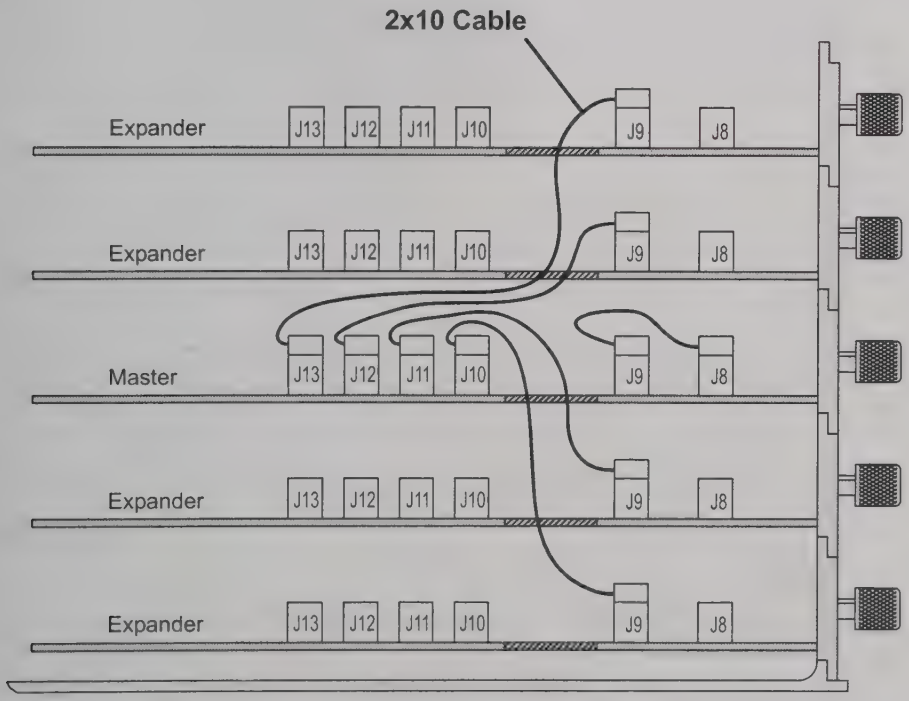
Note!

Carefully slide the five cards half way into the mainframe slots.

Cable the bottom two Expanders to the Master first.

Cable the upper two Expanders to the Master.

Gently slide the cabled assembly fully into the frame and tighten.



16720A

Done

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name:	Agilent Technologies
Manufacturer's Address:	Colorado Springs Division 1900 Garden of the Gods Rd. Colorado Springs, CO 80907 USA

declares that the product

Product Name:	Digitizing Oscilloscope Module
Model Number(s):	16517A and 16518A
Product Option(s):	All

conforms to the following Product Specifications:

Safety: IEC 1010-1:1990+A1 / EN 61010-1:1993
UL 3111
CSA-C22.2 No. 1010.1:1993

EMC: CISPR 11:1990 / EN 55011:1991 Group 1, Class A
IEC 555-2:1982 + A1:1985 / EN 60555-2:1987
IEC 555-3:1982 + A1:1990 / EN 60555-3:1987 + A1:1991
IEC 801-2:1991 / EN 50082-1:1992 4 kV CD, 8 kV AD
IEC 801-3:1984 / EN 50082-1:1992 3 V/m, {1kHz 80% AM, 27-1000 MHz}
IEC 801-4:1988 / EN 50082-1:1992 0.5 kV Sig. Lines, 1 kV Power Lines

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE-marking accordingly.

This product was tested in a typical configuration with Agilent Technologies test systems.

Colorado Springs, 10/03/96

John Strathman / Quality Manager

European Contact: Your local Agilent Technologies Sales and Service Office or Agilent Technologies GmbH, Department ZQ / Standards Europe, Herrenberger Strasse 130, D-71034 Boeblingen, Germany (FAX +49-7031-14-3143)

Product Regulations

Safety

IEC 348:1978 / HD 401 S1:1981
UL 1244
CSA-C22.2 No. 231 (Series M-89)

EMC

This Product meets the requirements of the European Communities (EC) EMC Directive 89/336/EEC.

Emissions EN55011/CISPR 11 (ISM, Group 1, Class A equipment)

Immunity

EN50082-1	Code	Notes
IEC 555-2	1	
IEC 555-3	1	
IEC 801-2 (ESD) 8kV AD	2	
IEC 801-3 (Rad.) 3V/m	1	
IEC 801-4 (EFT) 1kV	1	

CE
ISM 1-A
N10149

Performance Codes:
1 Pass - Normal operation, no effect.
2 Pass - Temporary degradation, self recoverable.
3 Pass - Temporary degradation, operator intervention required.
4 Fail - Not recoverable, component damage.

Notes: (none)

Sound Pressure Level N/A

Definitions: Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power (From host frame.)

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name:	Agilent Technologies
Manufacturer's Address:	Colorado Springs Division 1900 Garden of the Gods Rd. Colorado Springs, CO 80907 USA

declares that the product

Product Name:	Pattern Generator Module
Model Number(s):	16522A
Product Option(s):	All

conforms to the following Product Specifications:

Safety: IEC 1010-1:1990+A1 / EN 61010-1:1993
UL 3111
CSA-C22.2 No. 1010.1:1993

EMC: CISPR 11:1990 / EN 55011:1991 Group 1, Class A
IEC 555-2:1982 + A1:1985 / EN 60555-2:1987
IEC 555-3:1982 + A1:1990 / EN 60555-3:1987 + A1:1991
IEC 801-2:1991 / EN 50082-1:1992 4 kV CD, 8 kV AD
IEC 801-3:1984 / EN 50082-1:1992 3 V/m, {1kHz 80% AM, 27-1000 MHz}
IEC 801-4:1988 / EN 50082-1:1992 0.5 kV Sig. Lines, 1 kV Power Lines

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE-marking accordingly.

This product was tested in a typical configuration with Agilent Technologies test systems.

Colorado Springs, 4/03/95

John Strathman / Quality Manager

European Contact: Your local Agilent Technologies Sales and Service Office or Agilent Technologies GmbH, Department ZQ / Standards Europe, Herrenberger Strasse 130, D-71034 Boeblingen, Germany (FAX +49-7031-14-3143)

Product Regulations

Safety

IEC 1010-1: 1990+A1 / EN 61010-1: 1993
UL 3111
CSA-C22.2 No.1010.1:1993

EMC

This Product meets the requirements of the European Communities (EC) EMC Directive 89/336/EEC.

Emissions EN55011/CISPR 11 (ISM, Group 1, Class A equipment)

Immunity

EN50082-1	Code	Notes
IEC 555-2	1	
IEC 555-3	1	
IEC 801-2 (ESD) 8kV AD	1	
IEC 801-3 (Rad.) 3V/m	1	
IEC 801-4 (EFT) 1kV	1	

CE
ISM 1-A
N10149

Performance Codes:
1 Pass - Normal operation, no effect.
2 Pass - Temporary degradation, self recoverable.
3 Pass - Temporary degradation, operator intervention required.
4 Fail - Not recoverable, component damage.

Notes: (none)

Sound Pressure Level N/A

Definitions: Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power (From host frame.)

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name:	Agilent Technologies
Manufacturer's Address:	Colorado Springs Division 1900 Garden of the Gods Rd. Colorado Springs, CO 80907 USA

declares that the product

Product Name:	Digitizing Oscilloscope Module
Model Number(s):	16533A and 16534A
Product Option(s):	All

conforms to the following Product Specifications:

Safety: IEC 1010-1:1990+A1 / EN 61010-1:1993
UL 3111
CSA-C22.2 No. 1010.1:1993

EMC: CISPR 11:1990 / EN 55011:1991 Group 1, Class A
IEC 555-2:1982 + A1:1985 / EN 60555-2:1987
IEC 555-3:1982 + A1:1990 / EN 60555-3:1987 + A1:1991
IEC 801-2:1991 / EN 50082-1:1992 4 kV CD, 8 kV AD
IEC 801-3:1984 / EN 50082-1:1992 3 V/m, {1kHz 80% AM, 27-1000 MHz}
IEC 801-4:1988 / EN 50082-1:1992 0.5 kV Sig. Lines, 1 kV Power Lines

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE-marking accordingly.

This product was tested in a typical configuration with Agilent Technologies test systems.

Colorado Springs, 4/03/95

John H. Strathman

John Strathman / Quality Manager

European Contact: Your local Agilent Technologies Sales and Service Office or Agilent Technologies GmbH, Department ZQ / Standards Europe, Herrenberger Strasse 130, D-71034 Boeblingen, Germany (FAX +49-7031-14-3143)

Product Regulations

Safety IEC 1010-1: 1990+A1 / EN 61010-1: 1993
UL 3111
CSA-C22.2 No.1010.1:1993

EMC This Product meets the requirements of the European Communities (EC) EMC Directive 89/336/EEC.

Emissions EN55011/CISPR 11 (ISM, Group 1, Class A equipment)

Immunity

EN50082-1	Code	Notes
IEC 555-2	1	
IEC 555-3	1	
IEC 801-2 (ESD) 8kV AD	1	
IEC 801-3 (Rad.) 3V/m	1	
IEC 801-4 (EFT) 1kV	1	

CE
ISM 1-A
N10149

Performance Codes:
1 Pass - Normal operation, no effect.
2 Pass - Temporary degradation, self recoverable.
3 Pass - Temporary degradation, operator intervention required.
4 Fail - Not recoverable, component damage.

Notes: (none)

Sound Pressure Level N/A

Definitions: Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power (From host frame.)

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name:	Agilent Technologies
Manufacturer's Address:	Colorado Springs Division 1900 Garden of the Gods Rd. Colorado Springs, CO 80907 USA

declares that the product

Product Name:	Logic Analyzer Module
Model Number(s):	16557D
Product Option(s):	All

conforms to the following Product Specifications:

Safety: IEC 1010-1:1990+A1 / EN 61010-1:1993
UL 3111
CSA-C22.2 No. 1010.1:1993

EMC: CISPR 11:1990 / EN 55011:1991 Group 1, Class A
IEC 555-2:1982 + A1:1985 / EN 60555-2:1987
IEC 555-3:1982 + A1:1990 / EN 60555-3:1987 + A1:1991
IEC 801-2:1991 / EN 50082-1:1992 4 kV CD, 8 kV AD
IEC 801-3:1984 / EN 50082-1:1992 3 V/m, {1kHz 80% AM, 27-1000 MHz}
IEC 801-4:1988 / EN 50082-1:1992 0.5 kV Sig. Lines, 1 kV Power Lines

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE-marking accordingly.

This product was tested in a typical configuration with Agilent Technologies test systems.

Colorado Springs, 7/02/97

John Strathman / Quality Manager

European Contact: Your local Agilent Technologies Sales and Service Office or Agilent Technologies GmbH, Department ZQ / Standards Europe, Herrenberger Strasse 130, D-71034 Boeblingen, Germany (FAX +49-7031-14-3143)

Product Regulations

Safety

IEC 1010-1: 1990+A1 / EN 61010-1: 1993
UL 3111
CSA-C22.2 No.1010.1:1993

EMC

This Product meets the requirements of the European Communities (EC) EMC Directive 89/336/EEC.

Emissions

EN55011/CISPR 11 (ISM, Group 1, Class A equipment), IEC 555-2 and IEC 555-3

Immunity

EN50082-1	Code	Notes
IEC 801-2 (ESD) 8kV AD	1	
IEC 801-3 (Rad.) 3V/m	1	
IEC 801-4 (EFT) 1kV	1	

CE
ISM 1-A
N10149

Performance Codes:
1 Pass - Normal operation, no effect.
2 Pass - Temporary degradation, self recoverable.
3 Pass - Temporary degradation, operator intervention required.
4 Fail - Not recoverable, component damage.

Notes: (none)

Sound Pressure Level N/A

Definitions:

Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions

Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature

Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity

Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power

(From host frame.)

Agilent

DECLARATION OF CONFORMITY

According to ISO/IEC Guide 22 and CEN/CENELEC EN 45014

Manufacturer's Name:	Agilent Technologies, Inc. / Digital Design PGU
Manufacturer's Address:	1900 Garden of the Gods Road Colorado Springs, Colorado 80907 U.S.A.

Declares, that the product

Product Name:	Logic Analysis System Mainframe
Model Number:	16700B, 16701B and 16702B
Product Options:	All options based on the above

Is in conformity with:

EMC

IEC 61326-1:1997+A1:1998 / EN 61326-1:1997+A1:1998
CISPR 11:1990 / EN 55011:1991– Group 1 Class A [1]
IEC 61000-4-2:1995+A1:1998 / EN 61000-4-2:1995 (ESD 4kV CD, 8kV AD)
IEC 61000-4-3:1995 / EN 61000-4-3:1995 (3V/m 80% AM)
IEC 61000-4-4:1995 / EN 61000-4-4:1995 (0.5kV line-line, 1kV line-earth)
IEC 61000-4-6:1996 / EN 61000-4-6:1996 (3V 80% AM, power line)
Australia/New Zealand: AS/NZS 2064.1

Safety

IEC 61010-1:1990+A1:1992+A2:1995 / EN 61010-1:1994+A2:1995
Canada: CSA C22.2 No. 1010.1:1992
USA: UL 3111-1:1994

Additional Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (including 93/68/EEC) and carries the CE Marking accordingly (European Union).

[1] The product was tested in a typical configuration with Agilent Technologies test systems.

Ken Wyatt

Date: 11/18/99

Name

Ken Wyatt / Product Regulations Manager

For further information, please contact your local Agilent Technologies sales office, agent or distributor.

Product Regulations

EMC

	Performance Criteria
IEC 61326-1:1997+A1:1998 / EN 61326-1:1997+A1:1998	
CISPR 11:1990 / EN 55011:1991	
IEC 61000-4-2:1995+A1:1998 / EN 61000-4-2:1995	A
IEC 61000-4-3:1995 / EN 61000-4-3:1995	A
IEC 61000-4-4:1995 / EN 61000-4-4:1995	A
IEC 61000-4-6:1996 / EN 61000-4-6:1996	A
Canada: ICES-001:1998	

CE
ISM 1-A

N10149

Safety IEC 61010-1:1990+A1:1992+A2:1995 / EN 61010-1:1994+A2:1995
Canada: CSA C22.2 No. 1010.1:1992

Additional Information:
The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (including 93/68/EEC) and carries the CE Marking accordingly (European Union).

Performance Criteria:

A Pass - Norman operation, no effect.
B Pass - Temporary degradation, self recoverable.
C Pass - Temporary degradation, operator intervention required.
D Fail - Not recoverable, component damage.

Notes:

Sound Pressure Level Less than 60 dBA

Definitions Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power CAT II, Pollution degree 2
All Frames: ~Line 115/230 volts ± 20%, 48-66 Hz, 610 Watts max.

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name:	Agilent Technologies
Manufacturer's Address:	Colorado Springs Division 1900 Garden of the Gods Rd. Colorado Springs, CO 80907 USA

declares that the product

Product Name:	Logic Analyzer Module
Model Number(s):	16710A, 16711A and 16712A
Product Option(s):	All

conforms to the following Product Specifications:

Safety: IEC 1010-1:1990+A1 / EN 61010-1:1993
UL 3111
CSA-C22.2 No. 1010.1:1993

EMC: CISPR 11:1990 / EN 55011:1991 Group 1, Class A
IEC 555-2:1982 + A1:1985 / EN 60555-2:1987
IEC 555-3:1982 + A1:1990 / EN 60555-3:1987 + A1:1991
IEC 801-2:1991 / EN 50082-1:1992 4 kV CD, 8 kV AD
IEC 801-3:1984 / EN 50082-1:1992 3 V/m, {1kHz 80% AM, 27-1000 MHz}
IEC 801-4:1988 / EN 50082-1:1992 0.5 kV Sig. Lines, 1 kV Power Lines

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE-marking accordingly.

This product was tested in a typical configuration with Agilent Technologies test systems.

Colorado Springs, 09/01/98

Ken Wyatt

Name
Ken Wyatt / Product Regulations

European Contact: Your local Agilent Technologies Sales and Service Office or Agilent Technologies GmbH, Department ZQ / Standards Europe, Herrenberger Strasse 130, D-71034 Boeblingen, Germany (FAX +49-7031-14-3143)

Product Regulations

Safety

IEC 1010-1: 1990+A1 / EN 61010-1: 1993
UL 3111
CSA-C22.2 No.1010.1:1993

EMC

This Product meets the requirements of the European Communities (EC) EMC Directive 89/336/EEC.

Emissions

EN55011/CISPR 11 (ISM, Group 1, Class A equipment), IEC 555-2 and IEC 555-3

Immunity

EN50082-1	Code	Notes
IEC 801-2 (ESD) 8kV AD	2	
IEC 801-3 (Rad.) 3V/m	1	
IEC 801-4 (EFT) 1kV	1	

CE
ISM 1-A
N10149

Performance Codes:
1 Pass - Normal operation, no effect.
2 Pass - Temporary degradation, self recoverable.
3 Pass - Temporary degradation, operator intervention required.
4 Fail - Not recoverable, component damage.

Notes: (none)

Sound Pressure Level

N/A

Definitions:

Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions

Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature

Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity

Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power

(From host frame.)

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name:	Agilent Technologies
Manufacturer's Address:	Colorado Springs Division 1900 Garden of the Gods Rd. Colorado Springs, CO 80907 USA

declares that the product

Product Name:	Logic Analyzer Module
Model Number(s):	16715A, 16716A and 16717A
Product Option(s):	All

conforms to the following Product Specifications:

Safety: IEC 1010-1:1990+A1 / EN 61010-1:1993
UL 3111
CSA-C22.2 No. 1010.1:1993

EMC:

CISPR 11:1990 / EN 55011:1991	Group 1, Class A
IEC 555-2:1982 + A1:1985 / EN 60555-2:1987	
IEC 555-3:1982 + A1:1990 / EN 60555-3:1987 + A1:1991	
IEC 801-2:1991 / EN 50082-1:1992	4 kV CD, 8 kV AD
IEC 801-3:1984 / EN 50082-1:1992	3 V/m, {1kHz 80% AM, 27-1000 MHz}
IEC 801-4:1988 / EN 50082-1:1992	0.5 kV Sig. Lines, 1 kV Power Lines

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE-marking accordingly.

This product was tested in a typical configuration with Agilent Technologies test systems.

Colorado Springs, 03/19/99

Ken Wyatt

Name
Ken Wyatt / Product Regulations Manager

European Contact: Your local Agilent Technologies Sales and Service Office or Agilent Technologies GmbH, Department ZQ / Standards Europe, Herrenberger Strasse 130, D-71034 Boeblingen, Germany (FAX +49-7031-14-3143)

Product Regulations

Safety

IEC 1010-1: 1990+A1 / EN 61010-1: 1993
UL 3111
CSA-C22.2 No.1010.1:1993

EMC

This Product meets the requirements of the European Communities (EC) EMC Directive 89/336/EEC.

Emissions

EN55011/CISPR 11 (ISM, Group 1, Class A equipment), IEC 555-2 and IEC 555-3

Immunity

EN50082-1	Code	Notes
IEC 801-2 (ESD) 8kV AD	2	
IEC 801-3 (Rad.) 3V/m	1	
IEC 801-4 (EFT) 1kV	1	

CE
ISM 1-A
N10149

Performance Codes:
1 Pass - Normal operation, no effect.
2 Pass - Temporary degradation, self-recoverable.
3 Pass - Temporary degradation, operator intervention required.
4 Fail - Not recoverable, component damage.

Notes: (none)

Sound Pressure Level

N/A

Definitions:

Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions

Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature

Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity

Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power

(From host frame.)

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name:	Agilent Technologies
Manufacturer's Address:	Colorado Springs Division 1900 Garden of the Gods Rd. Colorado Springs, CO 80907 USA

declares that the product

Product Name:	Logic Analyzer Module
Model Number(s):	16718A and 16719A
Product Option(s):	All

conforms to the following Product Specifications:

Safety: IEC 1010-1:1990+A1 / EN 61010-1:1993
UL 3111
CSA-C22.2 No. 1010.1:1993

EMC: CISPR 11:1990 / EN 55011:1991 Group 1, Class A
IEC 555-2:1982 + A1:1985 / EN 60555-2:1987
IEC 555-3:1982 + A1:1990 / EN 60555-3:1987 + A1:1991
IEC 801-2:1991 / EN 50082-1:1992 4 kV CD, 8 kV AD
IEC 801-3:1984 / EN 50082-1:1992 3 V/m, {1kHz 80% AM, 27-1000 MHz}
IEC 801-4:1988 / EN 50082-1:1992 0.5 kV Sig. Lines, 1 kV Power Lines

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC, and carries the CE-marking accordingly.

This product was tested in a typical configuration with Agilent Technologies test systems.

Colorado Springs, 06/16/99

Ken Wyatt

Name
Ken Wyatt / Product Regulations Manager

European Contact: Your local Agilent Technologies Sales and Service Office or Agilent Technologies GmbH, Department ZQ / Standards Europe, Herrenberger Strasse 130, D-71034 Boeblingen, Germany (FAX +49-7031-14-3143)

Product Regulations

Safety

IEC 1010-1: 1990+A1 / EN 61010-1: 1993
UL 3111
CSA-C22.2 No.1010.1:1993

EMC

This Product meets the requirements of the European Communities (EC) EMC Directive 89/336/EEC.

Emissions

EN55011/CISPR 11 (ISM, Group 1, Class A equipment), IEC 555-2 and IEC 555-3

Immunity

EN50082-1	Code	Notes
IEC 801-2 (ESD) 8kV AD	2	
IEC 801-3 (Rad.) 3V/m	1	
IEC 801-4 (EFT) 1kV	1	

CE
ISM 1-A
N10149

Performance Codes:
1 Pass - Normal operation, no effect.
2 Pass - Temporary degradation, self recoverable.
3 Pass - Temporary degradation, operator intervention required.
4 Fail - Not recoverable, component damage.

Notes: (none)

Sound Pressure Level

N/A.

Definitions:

Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions

Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature

Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity

Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power

(From host frame.)

Agilent

DECLARATION OF CONFORMITY

According to ISO/IEC Guide 22 and CEN/CENELEC EN 45014

Manufacturer's Name:	Agilent Technologies, Inc. / Digital Design PGU
Manufacturer's Address:	1900 Garden of the Gods Road Colorado Springs, Colorado 80907 U.S.A.

Declares, that the product

Product Name:	Pattern Generator Module
Model Number:	16720A
Product Options:	All options based on the above

Is in conformity with:

EMC

IEC 61326-1:1997+A1:1998 / EN 61326-1:1997+A1:1998
CISPR 11:1990 / EN 55011:1991– Group 1 Class A [1]
IEC 61000-4-2:1995+A1:1998 / EN 61000-4-2:1995 (ESD 4kV CD, 8kV AD)
IEC 61000-4-3:1995 / EN 61000-4-3:1995 (3V/m 80% AM)
IEC 61000-4-4:1995 / EN 61000-4-4:1995 (0.5kV line-line, 1kV line-earth)
IEC 61000-4-6:1996 / EN 61000-4-6:1996 (3V 80% AM, power line)
Australia/New Zealand: AS/NZS 2064.1

Safety

IEC 61010-1:1990+A1:1992+A2:1995 / EN 61010-1:1994+A2:1995
Canada: CSA C22.2 No. 1010.1:1992
USA: UL 3111-1:1994

Additional Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (including 93/68/EEC) and carries the CE Marking accordingly (European Union).

[1] The product was tested in a typical configuration with Agilent Technologies test systems.

Ken Wyatt

Date: 02/10/2000

Name

Ken Wyatt / Product Regulations Manager

For further information, please contact your local Agilent Technologies sales office, agent or distributor.

Product Regulations

EMC	IEC 61326-1:1997+A1:1998 / EN 61326-1:1997+A1:1998	Performance Criteria [2]
	CISPR 11:1990 / EN 55011:1991	
	IEC 61000-4-2:1995+A1:1998 / EN 61000-4-2:1995	
	IEC 61000-4-3:1995 / EN 61000-4-3:1995	A
	IEC 61000-4-4:1995 / EN 61000-4-4:1995	A
	IEC 61000-4-6:1996 / EN 61000-4-6:1996	A
	Canada: ICES-001:1998	A

CE

ISM 1-A

N10149

Safety	IEC 61010-1:1990+A1:1992+A2:1995 / EN 61010-1:1994+A2:1995
	Canada: CSA C22.2 No. 1010.1:1992

Additional Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (including 93/68/EEC) and carries the CE Marking accordingly (European Union).

Performance Criteria:
A Pass - Norman operation, no effect.
B Pass - Temporary degradation, self recoverable.
C Pass - Temporary degradation, operator intervention required.
D Fail - Not recoverable, component damage.

Notes:

Sound Pressure Level N/A

Definitions: Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power (From host frame.)

Agilent

DECLARATION OF CONFORMITY

According to ISO/IEC Guide 22 and CEN/CENELEC EN 45014

Manufacturer's Name:	Agilent Technologies, Inc.
Manufacturer's Address:	1900 Garden of the Gods Road Colorado Springs, Colorado 80907 U.S.A.

Declares, that the product

Product Name:	Logic Analysis System Module
Model Number:	16740A, 16741A and 16742A
Product Options:	This declaration covers all options of the above product(s).

Conforms with the following product standards:

	Standard	**Limit**
EMC	IEC 61326-1:1997+A1:1998 / EN 61326-1:1997+A1:1998	
	CISPR 11:1990 / EN 55011:1991	Group 1 Class A [1]
	IEC 61000-4-2:1995+A1:1998 / EN 61000-4-2:1995	4kV CD, 8kV AD
	IEC 61000-4-3:1995 / EN 61000-4-3:1995	3V/m, 80-1000 MHz
	IEC 61000-4-4:1995 / EN 61000-4-4:1995	0.5kV signal lines, 1kV power lines
	IEC 61000-4-6:1996 / EN 61000-4-6:1996	3V, 0.15-80 MHz
	Canada: ICES-001:1998	
	Australia/New Zealand: AS/NZS 2064.1	
Safety	IEC 61010-1:1990+A1:1992+A2:1995 / EN 61010-1:1993+A2:1995	
	Canada: CSA C22.2 No. 1010.1:1992	

Conformity / Supplemental Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (including 93/68/EEC) and carries the CE Marking accordingly (European Union).

[1] The product was tested in a typical configuration with Agilent Technologies test systems.

Date: 08/29/2001

Ken Wyatt

Name

Ken Wyatt / Product Regulations Manager

For further information, please contact your local Agilent Technologies sales office, agent or distributor.

Product Regulations

EMC	Performance Criteria [2]
IEC 61326-1:1997+A1:1998 / EN 61326-1:1997+A1:1998	
CISPR 11:1990 / EN 55011:1991	
IEC 61000-4-2:1995+A1:1998 / EN 61000-4-2:1995	A
IEC 61000-4-3:1995 / EN 61000-4-3:1995	A
IEC 61000-4-4:1995 / EN 61000-4-4:1995	A
IEC 61000-4-6:1996 / EN 61000-4-6:1996	A
Canada: ICES-001:1998	

CE

ISM 1-A

N10149

Safety IEC 61010-1:1990+A1:1992+A2:1995 / EN 61010-1:1994+A2:1995
Canada: CSA C22.2 No. 1010.1:1992

Additional Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (including 93/68/EEC) and carries the CE Marking accordingly (European Union).

Performance Criteria:
A Pass - Norman operation, no effect.
B Pass - Temporary degradation, self recoverable.
C Pass - Temporary degradation, operator intervention required.
D Fail - Not recoverable, component damage.

Notes:

Sound Pressure Level N/A

Definitions: Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power (From host frame.)

Agilent

DECLARATION OF CONFORMITY

According to ISO/IEC Guide 22 and CEN/CENELEC EN 45014

Manufacturer's Name:	Agilent Technologies, Inc. / Digital Design PGU
Manufacturer's Address:	1900 Garden of the Gods Road Colorado Springs, Colorado 80907 U.S.A.

Declares, that the product

Product Name:	Logic Analysis System Module
Model Number:	16750A, 16751A and 16752A
Product Options:	All options based on the above

Is in conformity with:

EMC

IEC 61326-1:1997+A1:1998 / EN 61326-1:1997+A1:1998
CISPR 11:1990 / EN 55011:1991– Group 1 Class A [1]
IEC 61000-4-2:1995+A1:1998 / EN 61000-4-2:1995 (ESD 4kV CD, 8kV AD)
IEC 61000-4-3:1995 / EN 61000-4-3:1995 (3V/m 80% AM)
IEC 61000-4-4:1995 / EN 61000-4-4:1995 (0.5kV line-line, 1kV line-earth)
IEC 61000-4-6:1996 / EN 61000-4-6:1996 (3V 80% AM, power line)
Australia/New Zealand: AS/NZS 2064.1

Safety

IEC 61010-1:1990+A1:1992+A2:1995 / EN 61010-1:1994+A2:1995
Canada: CSA C22.2 No. 1010.1:1992
USA: UL 3111-1:1994

Additional Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (including 93/68/EEC) and carries the CE Marking accordingly (European Union).

[1] The product was tested in a typical configuration with Agilent Technologies test systems.

Ken Wyatt

Date: 02/08/2000

Name

Ken Wyatt / Product Regulations Manager

For further information, please contact your local Agilent Technologies sales office, agent or distributor.

Product Regulations

EMC		Performance Criteria [2]
	IEC 61326-1:1997+A1:1998 / EN 61326-1:1997+A1:1998	
	CISPR 11:1990 / EN 55011:1991	
	IEC 61000-4-2:1995+A1:1998 / EN 61000-4-2:1995	A
	IEC 61000-4-3:1995 / EN 61000-4-3:1995	A
	IEC 61000-4-4:1995 / EN 61000-4-4:1995	A
	IEC 61000-4-6:1996 / EN 61000-4-6:1996	A
	Canada: ICES-001:1998	

CE

ISM 1-A

N10149

Safety IEC 61010-1:1990+A1:1992+A2:1995 / EN 61010-1:1994+A2:1995
Canada: CSA C22.2 No. 1010.1:1992

Additional Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (including 93/68/EEC) and carries the CE Marking accordingly (European Union).

Performance Criteria:
A Pass - Norman operation, no effect.
B Pass - Temporary degradation, self recoverable.
C Pass - Temporary degradation, operator intervention required.
D Fail - Not recoverable, component damage.

Notes:

Sound Pressure Level N/A

Definitions: Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power (From host frame.)

Agilent

DECLARATION OF CONFORMITY

According to ISO/IEC Guide 22 and CEN/CENELEC EN 45014

Manufacturer's Name:	Agilent Technologies, Inc.
Manufacturer's Address:	1900 Garden of the Gods Road Colorado Springs, Colorado 80907 U.S.A.

Declares, that the product

Product Name:	Logic Analysis System Module
Model Number:	16760A
Product Options:	This declaration covers all options of the above product(s).

Conforms with the following product standards:

EMC	Standard	Limit
	IEC 61326-1:1997+A1:1998 / EN 61326-1:1997+A1:1998	
	CISPR 11:1990 / EN 55011:1991	Group 1 Class A [1]
	IEC 61000-4-2:1995+A1:1998 / EN 61000-4-2:1995	4kV CD, 8kV AD
	IEC 61000-4-3:1995 / EN 61000-4-3:1995	3V/m, 80-1000 MHz
	IEC 61000-4-4:1995 / EN 61000-4-4:1995	0.5kV signal lines, 1kV power lines
	IEC 61000-4-6:1996 / EN 61000-4-6:1996	3V, 0.15-80 MHz
	Canada: ICES-001:1998	
	Australia/New Zealand: AS/NZS 2064.1	
Safety	IEC 61010-1:1990+A1:1992+A2:1995 / EN 61010-1:1993+A2:1995	
	Canada: CSA C22.2 No. 1010.1:1992	

Conformity / Supplemental Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (including 93/68/EEC) and carries the CE Marking accordingly (European Union).

[1] The product was tested in a typical configuration with Agilent Technologies test systems.

Ken Wyatt

Date: 10/12/2000

Name

Ken Wyatt / Product Regulations Manager

For further information, please contact your local Agilent Technologies sales office, agent or distributor.

Product Regulations

EMC		Performance Criteria [2]
	IEC 61326-1:1997+A1:1998 / EN 61326-1:1997+A1:1998	
	CISPR 11:1990 / EN 55011:1991	
	IEC 61000-4-2:1995+A1:1998 / EN 61000-4-2:1995	B
	IEC 61000-4-3:1995 / EN 61000-4-3:1995	A
	IEC 61000-4-4:1995 / EN 61000-4-4:1995	A
	IEC 61000-4-6:1996 / EN 61000-4-6:1996	B
	Canada: ICES-001:1998	

CE

ISM 1-A

N10149

Safety IEC 61010-1:1990+A1:1992+A2:1995 / EN 61010-1:1994+A2:1995
Canada: CSA C22.2 No. 1010.1:1992

Additional Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC (including 93/68/EEC) and carries the CE Marking accordingly (European Union).

Performance Criteria:
A Pass - Norman operation, no effect.
B Pass - Temporary degradation, self recoverable.
C Pass - Temporary degradation, operator intervention required.
D Fail - Not recoverable, component damage.

Notes:

Sound Pressure Level N/A

Definitions: Installation category (overvoltage category) I: Signal level, special equipment or parts of equipment, telecommunication, electronic etc., with smaller transient overvoltages than installation (overvoltage category) II.

Installation category (overvoltage category) II: Local level, appliances, portable equipment etc., with smaller transient overvoltages than installation category III.

Environmental Conditions Indoor use only.
Altitude up to 3000 m. (10,000 ft.)

Temperature Instrument - 0 degrees C to 50 degrees C (32 degrees F to 122 degrees F)
Disk Media - 10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
Probes/cables - 0 degrees C to 65 degrees C (32 degrees F to 149 degrees F)

Humidity Relative humidity 8 to 80% at 40 degrees C (104 degrees F)

Power (From host frame.)

© Copyright Agilent Technologies, Inc. 2000-2001
All Rights Reserved.

Reproduction, adaptation, or translation without prior written permission is prohibited, except as allowed under the copyright laws.

Restricted Rights Legend.

Use, duplication or disclosure by the U.S.Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013.

Agilent Technologies Inc.
3000 Hanover Street
Palo Alto, California 94304
U.S.A.

Rights for no- DOD U.S. Government Departments and Agencies are set forth in FAR 52.227-19(c) (1,2).

Document Warranty

The information contained in this document is subject to change without notice.

Agilent Technologies Inc. makes no warranty of any kind with regard to this material, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose.

Agilent Technologies Inc. shall not be liable for errors contained herein or for damages in connection with the furnishing, performance, or use of this material.

Safety

This apparatus has been designed and tested in accordance with IEC Publication 1010, Safety Requirements for Measuring Apparatus, and has been supplied in a safe condition. This is a Safety Class I instrument (provided with terminal for protective earthing). Before applying power, verify that the correct safety precautions are taken (see the following warnings). In addition, note the external markings on the instrument that are described under "Safety Symbols."

Warning

- Before turning on the instrument, you must connect the protective earth terminal of the instrument to the protective conductor of the (mains) power cord. The mains plug shall only be inserted in a socket outlet provided with a protective earth contact. You must not negate the protective action by using an extension cord (power cable) without a protective conductor (grounding). Grounding one conductor of a two-conductor outlet is not sufficient protection.

- Only fuses with the required rated current, voltage, and specified type (normal blow, time delay, etc.) should be used. Do not use repaired fuses or short-circuited fuseholders. To do so could cause a shock or fire hazard.

- Service instructions are for trained service personnel. To avoid dangerous electric shock, do not perform any service unless qualified to do so. Do not attempt internal service or adjustment unless another person, capable of rendering first aid and resuscitation, is present.

- If you energize this instrument by an auto transformer (for voltage reduction), make sure the common terminal is connected to the earth terminal of the power source.

- Whenever it is likely that the ground protection is impaired, you must make the instrument inoperative and secure it against any unintended operation.

- Do not operate the instrument in the presence of flammable gasses or fumes. Operation of any electrical instrument in such an environment constitutes a definite safety hazard.

- Do not install substitute parts or perform any unauthorized modification to the instrument.

- Capacitors inside the instrument may retain a charge even if the instrument is disconnected from its source of supply.

- Use caution when exposing or handling the CRT. Handling or replacing the CRT shall be done only by qualified maintenance personnel.

Safety Symbols

Instruction manual symbol: the product is marked with this symbol when it is necessary for you to refer to the instruction manual in order to protect against damage to the product.

Hazardous voltage symbol.

Earth terminal symbol: Used to indicate a circuit common connected to grounded chassis.

WARNING

The Warning sign denotes a hazard. It calls attention to a procedure, practice, or the like, which, if not correctly performed or adhered to, could result in personal injury. Do not proceed beyond a Warning sign until the indicated conditions are fully understood and met.

CAUTION

The Caution sign denotes a hazard. It calls attention to an operating procedure, practice, or the like, which, if not correctly performed or adhered to, could result in damage to or destruction of part or all of the product. Do not proceed beyond a Caution symbol until the indicated conditions are fully understood or met.

Agilent Technologies
P.O. Box 2197
1900 Garden of the Gods Road
Colorado Springs, CO. 80901

Product Warranty

This Agilent Technologies Inc. product has a warranty against defects in material and workmanship for a period of one year from date of shipment. Some newly manufactured Agilent Technologies Inc. products may contain remanufactured parts which are equivalent to new in performance. During the warranty period, Agilent Technologies Inc. will, at its option, either repair or replace products that prove to be defective.

For warranty service or repair, this product must be returned to a service facility designated by Agilent Technologies Inc.

For products returned to Agilent Technologies Inc. for warranty service, the Buyer shall prepay shipping charges to Agilent Technologies Inc. and Agilent Technologies Inc. shall pay shipping charges to return the product to the Buyer. However, the Buyer shall pay all shipping charges, duties, and taxes for products returned to Agilent Technologies from another country.

Agilent Technologies warrants that its software and firmware designated by Agilent Technologies for use with an instrument will execute its programming instructions when properly installed on that instrument. Agilent Technologies does not warrant that the operation of the instrument software, or firmware will be uninterrupted or error free.

Limitation of Warranty

The foregoing warranty shall not apply to defects resulting from improper or inadequate maintenance by the Buyer, Buyer-supplied software or interfacing, unauthorized modification or misuse, operation outside of the environmental specifications for the product, or improper site preparation or maintenance.

No other warranty is expressed or implied. Agilent Technologies Inc. specifically disclaims the implied warranties of merchantability or fitness for a particular purpose.

Exclusive Remedies

The remedies provided herein are the buyer's sole and exclusive remedies. Agilent Technologies Inc. shall not be liable for any direct, indirect, special, incidental, or consequential damages, whether based on contract, tort, or any other legal theory.

Assistance

Product maintenance agreements and other customer assistance agreements are available for Agilent Technologies Inc. products. For any assistance, contact your nearest Agilent Technologies Sales Office.

Certification

Agilent Technologies Inc. certifies that this product met its published specifications at the time of shipment from the factory. Agilent Technologies Inc. further certifies that its calibration measurements are traceable to the United States National Institute of Standards and Technology, to the extent allowed by the Institute's calibration facility, and to the calibration facilities of other International Standards Organization members.

About this edition

Publication number
16700-97019, November 2001
Printed in USA.

Print history is as follows:
16700-97014, April 2000
16700-97018, February 2001
16700-97019, November 2001

New editions are complete revisions of the manual. Many product updates do not require manual changes; and, conversely, manual corrections may be done without accompanying product changes. Therefore, do not expect a one-to-one correspondence between product updates and manual updates.

Agilent Technologies
Printed in the USA

Manual Part Number
16700-97019